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| **PROFILE** |

* Delivery-oriented | Software Engineer | Agile Java Developer | **Lead Delivery Engineer** with **14+ years** of experience.
* Experience of leading a team of multiple resources and keeping them focused on achieving sprints as well as project goals.
* Seasoned **Agile and extreme programmer** and very comfortable with the principles of **CI, CD, and iterative development**.
* A proven track record of delivering **“working” software** rather than just software as part of each iteration or sprint.
* Extensive hands-on experience of **client/server/N-Tier architecture** and component-based desktop/web development.
* Experience of client interaction to gather requirements on-site, suggest technologies and solutions, and conduct training.
* Quick learner, self-motivated, enthusiastic, determined, hard as well as smart worker, and good problem-solving capabilities.
* Deliver **fast** by focusing on the quality of deliverables, i.e., by having enough automated tests in the form of unit, integration, and acceptance tests; hence, code changes, refactoring, and bug fixing can be done much quicker and with confidence.
* **TDD** enables me to think well about the system, forecast future issues easily, and produce clean, simple, and readable code.
* Expert in finding out the dependencies, **breaking out** the complex or bigger problems into smaller, more manageable ones, making testable stories playable in parallel if possible, and providing **estimates** in iteration planning meetings (**IPMs**).
* Enhanced, designed, developed, tested, documented, and implemented the applications, and utilised mechanisms like rate limiting, throttling, circuit breakers, proper time-outs, etc., to deliver solutions with high reliability, scalability, and availability.
* Always happy to take more **responsibility** when required and can step back too to give a chance to other team members.
* A versatile team player who can work in a group as well as individually to handle the full life cycle of application development.
* Always open to **collaborating and communicating** with UX/QA/BA/Dev (any stakeholder) to discuss the requirements, solution, test scenarios, risks, etc., which helps to have everyone on the team on the same page.

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| **OBJECTIVES** |

To work in a competitive environment that effectively utilises my analytical, interpersonal, leadership, and organisational skills to conceive and achieve solutions. The solutions that help the organisation not only meet its targets but also allow it to grow, thereby enhancing my own skills as an individual and as a key player in the organisation's development.

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| **CERTIFICATIONS** |

* PMI Agile Certified Practitioner **(PMI-ACP)**
* Certified Scaled Professional Scrum **(SPS)**
* Certified Professional Scrum Master I **(PSM I)**
* Sun Certified Programmer for the Java 2 Platform, SE 6 **(SCJP 6)**

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| **PROFESSIONAL TRAININGS/ SEMINARS** |

I attended the following trainings and seminars:

* AWS Certified Solution Architect Associate course.
* I attended 35 PDUs of training for the Project Management Professional course from the R.E.P. of PMI.
* I attended 7 PDUs of training for the Project Management Office from the R.E.P. of PMI.
* I attended training on personal and professional grooming, attire, and team motivation.
* I attended training on Business Communication and Presentation Skills.
* I attended training on Software Product Engineering.

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| **EDUCATION** |

* Statement of Attainment in Team Leader Skill Set from TAFE NSW-Western Sydney Institute (2016)
* Statement of Attainment in Essential Skills for Project Managers from TAFE NSW-Sydney Institute (2016)
* Bachelor of Computer Science and Engineering from the University of Engineering and Technology, Pakistan (2003–2006)

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| **TECHNICAL SKILLS** |

**Languages:** Java (J2SE and J2EE), C/C++, and PL/SQL.

**Web Technologies:** Spring, Spring Boot, JSF, EJB, Hibernate, JMF, JSAPI, JAXP, JDOM, RMI, Java Beans, Java Applet, JSP/Servlets, HTML, CSS, JavaScript, JQuery, DHTML, XML, AJAX, DWR 2.X, GWT, Maven, Ant, Microsoft Speech SDK Beans, H2, Cucumber, JUnit, Hamcrest, Mockito.

**Web based Tools:** Oracle Application Server 10g, Jetty, Apache Tomcat, JBoss.

**Operating Systems:** Mac, Windows 98, Windows 2000 & 2003 Server, Windows XP, Red Hat Linux 9.0.

**Databases:** Oracle Database 9i/10g, DB2, MySQL, and MS Access 2003.

**Software Tools:** IntelliJ, MyEclipse, JBuilder 2007, Rational Software Architect (RSA), Sun Java Studio Creator 2, MS Office, GIT, Visual Source Safe, Concurrent Versioning System (CVS), Rational ClearCase, TOAD 9.X, Control Centre, Snagit, Rational Rose 2002, HP Quality Centre, Jira, Bamboo, Confluence.

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| **EMPLOYMENT HISTORY WITH PROJECT DETAILS** |

**Responsibilities:** Senior Software Engineer (Freelance) June 2021 – June 2024

* I created the [YNaMi](https://faisalazam.github.io/YNaMi/) project using Java 10 and Spring Boot 2.0.5. Later, I upgraded to Java 20 and Spring Boot 3.1.2. It was a big upgrade, as a lot had changed since those versions, so it required a lot of changes, including significant dependency upgrades. E.g., Flyway, Cucumber, Selenium, jUnit, etc. The aim is to act as a template for best practices, structuring and running various types of tests, DB migrations, feature toggles, Maven profiles, setting up CI/CD using GitHub Actions, etc.
* I created this [template](https://faisalazam.github.io/MavenInActionWithGitHubActions/) project to solve common Maven issues like running tests, code coverage, check-style, CI/CD, etc.
* I created this [menu-based](https://faisalazam.github.io/MediaRentalSystem/) CLI media rental application to be used as a template for any menu-based Java CLI application.
* I joined a few software/IT-related groups to help/respond to others. I see it as another way to learn/stay in touch/up to date.

**Organization: Atlassian**, Australia October 2020 – February 2021

**Position:** Senior Full Stack Software Engineer

**Tools:** Java, Spring Boot, AWS, Docker, TypeScript, React, Node, CSS, CI/CD, BitBucket, Jenkins, Jira, Confluence

**Responsibilities:**

* I developed microservices for getting, storing, and expiring the activation status of multiple service providers like Google, Microsoft, and Slack, etc., as well as getting the list of users that belong to an organisation using Atlassian products.
* I integrated with multiple service providers to enable user-friendly invites from Atlassian products (Jira, Confluence, etc.).
* Completed an existing project to automate the execution of tests in different projects across Atlassian products.

**Organization: Vodafone**, Australia February 2019 – October 2020

**Position:** Lead Full Stack Software Engineer | Agile Delivery Lead (Java, Spring Boot, AWS, Docker, Oracle, Ansible)

**Tools:** Java, Spring Boot, AWS, Docker, Oracle, Angular, React, Node, jQuery, CSS, CI, Git, Jenkins, Jira, Confluence

**Organization: National Broadband Network (NBN) Co** and SMS Consulting, Australia September 2012 – February 2018

**Position:** Iteration Manager | Lead Delivery Engineer | Senior Agile Java/JEE Consultant

**Project:** Portals and Online Services (POS)

**Tools:** Java 7 & 8, J2EE, Spring, Hibernate, PL/SQL, Oracle, H2, RSpec, JUnit, Hamcrest, Mockito, Jetty, RTC, GoCD, Continuous Integration, Hg Mercurial, Git, XML, Sonar, IntelliJ Idea, Freemarker, JavaScript, jQuery, Angular, React, Node, Selenium, Vagrant, Docker, Ansible, Packer, AWS, Jira, Confluence

**Responsibilities:**

* The main responsibilities included the design and development of some major components and modules using the **Test-Driven Development (TDD)**, **Acceptance Tests,** and **Continuous Integration (CI)** approaches in a self-organising, **pair programming,** and **highly collaborative** team environment.
* I wrote clean, self-documented, easy-to-understand code and followed the coding standards (enforced by Sonar).
* I worked in a big, distributed cross-functional team in an **Agile** software development process, particularly **Scrum**.
* I developed a framework for **behaviour-driven development (BDD)** using Cucumber.
* I created a **GUI comparator tool** to compare the next ready-for-release build with the current production build to prevent accidental release.
* I created **pipelines in GoCD** to setup infrastructure, manage deployments, and automate tasks as much as possible.
* I provided technical and functional expertise to bridge the gap between product design and operations.
* I helped with the migration of Go agents from the data center to **AWS**.
* I integrated many important services into this highly distributed project.
* I provided mentoring, support, and assistance to other team members.
* I supported decision-making at the level closest to the issue.
* I communicated in an open, candid, and direct manner.

**Project Details:** The service portal provides nominated access seekers with the ability to: place or modify orders; raise trouble tickets; create and manage appointments; and receive billing information. The assurance team uses the portal to receive trouble tickets for resolution and to update the access seeker with fault resolutions. The activations team uses the portal to retrieve, process, and manage all service activations for NBN Co. This is a huge, life-changing project of the Australian government to change the way phone, teleworking, online health, and business solutions are used.

**Organization: ResMed and DiUS Computing**, Australia  August 2011 – June 2012

**Position:** Senior Software Engineer | Senior Agile Java/JEE Consultant

**Project:** EasyCare Online Compliance Management Solution (ECO)

**Tools:** Java, J2EE, Spring, Hibernate, PL/SQL, SQL Server, H2, Cucumber, JUnit, Hamcrest, Mockito, Applet, Jetty, JBoss, JAXB, Jira, Confluence, Bamboo, Continuous Integration, Git, XML, Buildr, EclEmma, Eclipse, Talend, JSP, AJAX, JavaScript, jQuery, Apache Tiles, Selenium, Custom taglibs, Linux

**Responsibilities:**

* The main responsibilities included the design and development of some major components and modules using the **Test-Driven Development (TDD)**, **Behaviour-Driven Development (BDD),** and **Continuous Integration (CI)** approaches with more than 95% code coverage in a self-organising, **pair programming,** and collaborative team environment.
* I wrote clean, self-documented code and followed the coding standards checked by the check style filter.
* I worked in a big, distributed cross-functional team in an **Agile** software development process, particularly **Scrum,** complying with regulatory and quality control systems and proposing improvements.
* I developed a project or tool for the migration of data from existing customers using the old system.
* I provided technical and functional expertise to bridge the gap between product design and operations.
* I provided support and assistance to other team members.
* I supported decision-making at the level closest to the issue.
* I managed the build on build-monkey/slave/master day.
* I arranged and ran tech/scrum/sprint retrospectives.
* I communicated in an open, candid and direct manner.

**Project Details:** EasyCare Online is a revolutionary cloud-based system that allows customers to access all of their patients’ therapy data online, regardless of the data-gathering channel (wireless or via SD card), and as a result, they can quickly identify patients struggling with compliance to address issues early on. It has an intuitive user interface with centralised database in the cloud, resulting in quick and easy workflows and more comprehensive patient management, along with one-click compliance reporting.

**Organization: IBM Global Business Services**, Australia March 2010 – December 2010

**Position:** Software Engineer | Java Consultant

**Project:** Systems for People Generic Visa Portal (SfP GVP)

**Client:** Department of Immigration and Citizenship (DIAC), Australia

**Tools:** Java, JEE, Spring, Rich Domain Model (RDM), DB2, Hibernate, PL/SQL, JUnit, XML, Ant, Git, Control Centre, Rational Software Architect (RSA), Web sphere, SfP Services API, Rational ClearCase, JAXB, EclEmma, QA.

**Responsibilities:**

* I analysed and understood the requirements.
* I developed and maintained the project code in Java using the clients’ component framework.
* I worked closely with the services team for the integration of different services.
* I designed and developed some major components and modules.
* I implemented the business layer for different components and modules using **Test-Driven Development (TDD)** and **Continuous Integration (CI)**, integrated them with other components and modules, and then tested them as a whole.
* I produced and developed unit test plans and coded JUnit tests for different components and modules with more than 80% code coverage (this limit was imposed by the client) to test and debug application problems, which were measured using the EclEmma tool, and wrote well-documented code according to the coding standards checked by the QA tool.
* I worked with a huge team; more than 100 people were in the Sydney office, and the rest of the team was in Canberra.
* I supported the application through different testing cycles, like string, functional, regression testing, etc.
* I integrated the **MTOM**-based web service using the SfP Services API.
* I wrote a maintenance manual for the components and modules I developed.
* The development was done using a constantly changing Spring-based framework that made extensive use of Java Generics and Annotation and required collaboration with the Framework team.
* I also managed the build of my sub-team on a turn-by-turn basis.
* I liaised with the UX team, BA team, and other teams to clarify requirements.
* I performed all the above responsibilities in the Australian Department of Immigration and Citizenship (DIAC) for the development of DIAC’s Generic Visa Portal (GVP) project.

**Project Details:** Generic Visa Portal (GVP), an ICT-enabled product, was implemented by DIAC (as part of its Systems for People Transformation programme) for the processing of all types of visas. It is transforming the way visas are processed online and within DIAC (offices situated anywhere in the world). It is streamlining and establishing more consistent visa processes across the suite of visas available in Australia. It also uses rules engine technology and sophisticated risk-based rules algorithms to determine both the amount and type of data needed from a visa applicant. The information provided by the applicant can be processed by the rule’s engine, and in some cases (like low-risk countries), visas can be granted automatically based on the provided information. Its eVisa web interface is being accessed by visa applicants from all over the world to lodge applications, and DIAC intends to significantly increase the number of visas lodged online electronically to take advantage of this advanced risk-based processing capability.

**Organization: NetSol Technologies Inc.**, Pakistan April 2007 – September 2009

**Position:** Software Engineer

**Responsibilities:**

* I architected, designed, and implemented high-volume mission-critical applications with progressively responsible positions.
* I participated in the full lifecycle of the development process, from analysis, design, development, implementation, modification, documentation, and refinement for software systems, as well as the delivery and deployment of those systems.
* I produced software documentation, made software modules according to RS, and tested and debugged application issues.
* I provided technical management oversight of all technical activities and teams.
* I monitored and coordinated with team members as the team leader and higher management.
* I was involved in face-to-face (on-site) client interactions during phases like requirement gathering, deployment of the project, training of their staff, UAT, getting documents signed off from them, etc.
* I produced RS, design documents, and unit test plans.
* I created functional and technical design specifications.
* I learned and deployed CMMI processes on all projects.
* I travelled often to the internal and external customer sites.

**Project:** Land Record Management Information System

**Organization:** NetSol Technologies Inc., Lahore, Pakistan

**Client:** Government of Punjab, Pakistan

**Tools:** Java, J2EE, Java Script, Java Script (GUI Component), PL/SQL, JSPs, Servlets, Java Applet, AJAX, HTML, RMI, Swing, Oracle 9i, XML, CSS, Tomcat Web Server.

**Role:** Software Engineer

**Responsibilities:**

* The main responsibilities included the design, development, and integration of major modules with the rest of the application.
* I implemented the user interface layer and developed the web pages using HTML, XML, style sheets, JavaScript, and JSP.
* I implemented the business layer using Java Servlets and Java Beans and the data access layer using JDBC Drivers, and this layer is independent of the data store as well as the graphical representation of families in the form of trees.
* I implemented a role-based security mechanism that allows admin users to access the admin module based on its role.
* I implemented a security module for the application to register and authenticate the user through thumb impression scanning.
* I implemented a picture gallery to view and store pictures, and I configured and deployed the RMI Server.
* I implemented multiple registers, roznamchas, workflows, etc. used for land record management.

**Project Details:** The government of Pakistan is the custodian of this project. Land Record Management Information System (LRMIS) is a 3-tier web-based application developed in order to improve the land records service in Pakistan, contribute to long-lasting tenure security and more efficient functioning of land markets, and establish a basis for full integration of information associated with rights in land. It is to be deployed all over Pakistan and will be centrally controlled. The data warehouse will receive data through the replication process. A system based on dual languages (English and Urdu) implements the administration and user functionalities in a wizard style. The administration module is an interface for users who can add, delete, or modify the different modules and their relevant data. The user view module is an interface for different types of users, like the revenue officer, Patwari, Tehsildar, etc. It provides a highly parameterized architecture to enable users to setup system parameters whenever new parameters are required.

**Project:** Health Management Information System (HMIS)

**Organization:** NetSol Technologies Inc., Lahore, Pakistan

**Client:** National Institute of Heart Diseases (NIHD)

**Tools:** JSP, J2SE, J2EE, PL/SQL, Oracle 10g Forms and Reports, Oracle Application Server 10g, Toad.

**Role:** Software Engineer

**Responsibilities:**

* I implemented the required changes in the Oracle application server in order to change the runtime environment of the NIHD application from Jinitiator to JRE and to provide a way to deploy and integrate Java applications.
* I designed and applied the splash screen for the NIHD application and made the required changes in the application server.
* I provided a way to integrate Java code with Oracle forms.
* I implemented PDF Viewer/Renderer, i.e., provided a way to open PDF files.
* I developed a workflow document for the Medical Record Management System.
* I fixed bugs in different modules like Food Management, Medical Record Management System, Radiology, etc.
* I developed forms and reports for all the modules assigned to me.
* I performed testing of the registration module, inventory module, etc.
* I implemented common tasks on all forms and reports of my modules.
* I prepared training material (presentations and handouts) for the trainees.

**Project Details:** The system is based on the latest state-of-the-art technology with an open architecture, making it user-friendly by providing the flexibility of preparing customised management reports to meet specific requirements. It is an enterprise resource planning (ERP) system specifically designed for hospitals, providing a seamless upgrade path for hospitals of virtually every type and size, from small start-ups to large organisations, comprising clinical, financial, and administrative modules.

**Project:** Code Generator

**Organization:** NetSol Technologies Inc., Lahore, Pakistan

**Tools:** J2SE, J2EE, JSP, PL/SQL, AJAX, DWR, GWT, GWT-Ext, Velocity, Free Marker, Ext JS, Display Tag, HTML Parser, CSS Parser, Struts 2.1, Webworks 2.0, Dojo 1.0, JEdit, JBuilder 2006, Toad, Tomcat 6.0.

**Role:** Software Engineer

**Responsibilities:**

* I developed a dialog-based form grid wizard using the Swing API as well as file creation based upon the Struts framework.
* I developed the code and JSP templates for the Form Grid wizard using Velocity.
* I used the Struts 2.1 and Dojo components in the JSP page generated through the Form Grid wizard.
* I developed a special kind of editable grid with pagination that was built on the Display Tag library to display and edit a certain child table record against a unique parent.
* AJAX controls were also implemented in this form using the DWR and GWT frameworks.
* For validation, JavaScript treated the client side, and the server side was managed by using the Struts Validation Framework.
* The user can produce any type of DML form by using the Form Grid wizard, which has the added functionality of searching records. It is easy to use and can be made with the utmost ease.

**Project Details:** Code Generator is an intelligent IDE, which helps in achieving project goals quickly and without much effort. The main purpose of this project is to let the business domain personnel to build systems. To achieve this goal, Code Generator has a built-in Business Logic Builder, which can produce the required business logic. It has an integrated Struts 2.0 designer and helps the user to drag and drop Struts components and design JSP pages in an easy way. This designer also enables the user to link the Struts 2 components with the database. Other than that, the user can compile and run JAVA class or interface files. The user, with the help of an integrated Query Builder, can easily browse any kind of Database Server. It provides 4 types of generic wizards i.e. Authentication, Grid, Form Grid and Form, which can help the user to develop his/her pages in desired fashion.

**Project:** Land Slide

**Organization:** NetSol Technologies Inc., Lahore, Pakistan

**Tools:** J2EE, EJB, JSF (Java Server Faces), Hibernate, JSP/Servlets, PL/SQL, Oracle, JBoss, Eclipse, AJAX, ANT.

**Role:** Software Engineer

**Responsibilities:**

* I participated in the development of the AJAX-based administration module by implementing all the submodules, like user management, file management, security management, etc., and they fall under the category of administration module.
* I developed the web pages using JSF, Cascading Style Sheets, and JavaScript and implemented the user interface layer.

**Project Details:** Landslide is the first offering that has a single-minded focus on improving the lives of salespeople and the effectiveness of the selling function at enterprises of all sizes. Based on an in-depth understanding of the work styles—the way people work—of salespeople and the new challenges faced by businesses today, it helps effectively increase your ability to:

* Easily define and implement process-centric selling.
* Have higher-impact conversations with senior executives.
* Effectively qualify prospects.
* Eliminate data entry from the lives of salespeople.

**Project:** Talking Hands (Boltae Haath)

**Tools:** Java, JMF, Microsoft Speech SDK, JSAPI, Swing, AWT.

**Role:** Software Engineer

**Responsibilities:**

* Speech and multimedia domain understanding and analysis of requirements.
* Authoring requirements specifications, functional specifications, and design documentation.
* Establishment of basic application frameworks as well as application development.

**Project Details:** Analysed and developed a deadline-oriented project, i.e., Boltae Haath. It is an application to facilitate communication among persons who are unable to communicate in normal circumstances, using speech synthesis, speech recognition, etc. Application features are given below:

* It can take input in the form of text, speech, or gestures and convert the input into the other two forms.
* It can be used to teach or learn sign language.
* It also shows the lips movements according to speech.

**Organization: Hi-Tech Engineering Solutions**, PakistanJanuary 2004 – March 2007

**Position:** Software Engineer

**Responsibilities:**

* I designed, developed, tested, and maintained computer programs and computer-based information systems to ensure that they met the end users’ needs and requests.
* I participated in the analysis, documentation, and maintenance of existing program job streams.
* I analysed, modified, encoded, debugged, and supported existing application software.
* I coordinated with administrative and technical personnel concerning the implementation of the developed modules.
* I prepared a summary, detailed flow charts, and other documentation to indicate system and program logic.
* I provided technical programming advice and assistance in the operational use of computer programs and systems.

**Project:** ERP Education System

**Tools:** Oracle 9i, JSP, Java Beans, Tomcat, HTML, Java Script, CSS.

**Role:** Software Engineer

**Responsibilities:**

* I developed the complete lifecycle of individual modules, which included acquiring requirements, design, coding, and testing.
* I implemented the user interface layer and developed the web pages using HTML, style sheets, JavaScript, and JSP.
* I implemented the business layer using Java Servlets and Java Beans.
* I implemented a data access layer using JDBC drivers, and this layer is fully independent of the data store.
* I implemented the role-based security mechanism that allows the admin/principal/teachers/students users to access the admin/principal/teachers/student’s module based on its role.

**Project:** Admission System

**Tools:** MySQL, JDBC Drivers, JSP, Java Beans, Tomcat, HTML, Java Script, CSS.

**Role:** Software Engineer

**Responsibilities:**

* I generated the functional specification documents.
* I implemented the user interface layer and developed the web pages using HTML, style sheets, JavaScript, and JSP.
* I participated in the analysis, design, and development of the system and data model.
* I implemented the business layer using Java Servlets and Java Beans.
* I implemented a data access layer using JDBC drivers, and this layer is fully independent of the data store.

**Project:** Implementation of BIRCH Algorithm using C/C++

**Role:** Software Engineer

**Responsibilities:**

* Data clustering domain understanding and analysis of requirements.
* Authoring requirements specifications, functional specifications, and design documentation.
* Establishment of basic application frameworks as well as application development.

**Project Details:** I implemented the previously described BIRCH algorithm for data clustering. This platform-independent app has a solid implementation of data structures and pointers. It processes large amounts of data in order to save processing time by constructing a clustering feature tree and retaining all data in main memory, which wouldn't be possible in usual conditions.

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| **EXTRA CURRUCULAR ACTIVITIES** |

I can handle the difficult situation easily. My ability to work under pressure and in tight conditions gave me an edge in the current organization. I have a flexible nature, and being a good team player, I can play a good role in bringing about improved results. I have good presentation and communication skills that have made me prominent throughout my academic and professional career.