|  |
| --- |
| Farrukh Mirza |

|  |  |
| --- | --- |
| +353-87-2719767  [farrukhmpk@gmail.com](mailto:farrukhmpk@gmail.com)  Stamp 4 – Full Work Permit (Ireland) | <https://farrukhmpk.github.io>  [www.linkedin.com/in/dr-farrukh-mirza](http://www.linkedin.com/in/dr-farrukh-mirza)  <https://github.com/farrukhmpk> |

|  |  |
| --- | --- |
| Objective | I thrive in fast paced environments in a leadership role. As a senior leader & strategist, I believe in innovation, efficiency, success & delivery through smart hard work & taking responsibility.  I am currently leading & coaching project managers, business analysts & technical architects, while influencing key business decision makers & stake holders. I have lead, managed and mentored graduate & senior backend engineers, UX designers, UI developers, test engineers and technical software & test architects in co-located and geographically distributed teams. I have more than 7 years of experience of team leadership and management, project management, enterprise software architecture, and overall 15 years of experience of software design, development, integration and maintenance.  I have worked in banking, mobile virtual network operations, customer relationship, energy, financial transaction & payments (e-Banking, e-Commerce), software lifecycle management and research environments. I maintained excellent relationship with customers, exceeding their expectations & advising them on their software investments.  In addition to personnel & business crises management, I also have extensive experience in architecting, engineering, troubleshooting & diagnosis of large scalable & complex systems. |
| Management Skills & Abilities | Team Leadership & Management of Project Managers, Business Analysts, Senior Software Engineers, Technical Architects, UI/UX Developers & Test Architects. Agile Project/Program Management using Scrum & Kanban. Scoping, Customer Relationship, Crises Management, Product Backlog Grooming, Team Mentorship, Communication (Written/Verbal) |
| Technical Skills & Abilities | * **Architectures:** System & Solutions Architecture, Microservices, Enterprise Service Bus (ESB), Middleware, RESTful, SOA, Conventional MVC & Reactive Web Applications, Highly Scalable Distributed Systems. * **Design Methodologies:** UML, ERD, ArchiMate, Enterprise Integration Patterns (EIP), GoF, OOP/OOAD, Strategy, Factory, Abstract Factory, Front Controller, Template Method, Observer, Singleton, Circuit Breaker, HATEOS, Saga, Event Sourcing, Service Façade, API Gateway, TDD, BDD. * **Enterprise Integration:** SSO (CAS/Shibboleth), OAuth, OIDC, SAML2, SOAP, REST, APIs, JMS, Apache Camel, Apache ServiceMix, Apache CXF, hMailServer, Postfix, ejabberd, LDAP. * **Programming Languages:** Java (J2EE), JSP, JSTL, HTML/DHTML, JavaScript, SQL/PLSQL/JPQL, Linux Shell Scripting, Windows PowerShell and Batch Scripting, Microsoft Visual C++, C++, nesC. * **Frameworks:** JQuery, JQuery UI, Bootstrap, AJAX, Spring Core, Spring MVC, Spring Security, Spring Boot, Spring Data JPA, Spring LDAP, Spring AOP, Spring REST, Hibernate, Java Message Service (JMS), Java Persistence API (JPA), JNDI, Java Cryptographic Extensions (JCE), Apache POI, Jackrabbit, Junit, Zebra Crossing (Zxing), XPath, JAXB, ehcache, TinyOS, uDig (Eclipse Plugin Development), MSMQ, MFC, STL, ATL, Win32 API, WinCrypt, CryptoPP. * **DevOps & Tooling:** Nexus, Jenkins, Bitbucket, PostgreSQL, MS SQL Server, Oracle, MySQL, Docker, Apache, Tomcat, WildFly, WebLogic, Azure, Vagrant, Maven, DokuWiki, .Net Core, Git, Mercurial, SVN, OpenSSL * **Protocols & Standards:** HTTP/HTTPS, SSL/TLS & MA-TLS, OAuth/OIDC, SAML2, AMQP, SSH, RDP, RSA, AES, DES, SHA, IEEE-802.15.4 (Zigbee), TCP/IP, RS-232, ISO-8583 * **Corporate Tech & Tools:** MS Office (365), MS SharePoint, Dynamics 365, MS Teams, Jira, Confluence, Rally |
| Education | University of Dublin, Trinity College – Dublin, Ireland – Doctor of Philosophy (PhD) 2009 - 2014  Computer Science  Title: Exploiting Unstable Paths in Urban-Scale Wireless Sensor Networks University of Dublin, Trinity College – Dublin, Ireland – Postgraduate Diploma (PGD) 2009 - 2010  Statistics  Graduated with Distinction IELTS Certification – Karachi, Pakistan – English Language April 2008  Achieved Band 7.0 overall Sir Syed University of Engineering & Technology – Karachi, Pakistan – Bachelors of Science 2009 - 2010  Computer Engineering  Received Gold Medal for First Class First Position.  Received Gold Medal for securing highest score in Mathematics among all engineering disciplines  Received multiple merit scholarships from university and Government of Pakistan for academic excellence |
| Experience | Bank of Ireland - <http://www.bankofireland.com/> Senior Solution Architect, March 2019 - Present   * Leading, coaching and mentoring team of technical architects, technical leads and senior software engineers in terms of enterprise software design and architecture and helping them architect, design and implement efficient systems. Review architecture summary and high level design documents. I am involved in technology selection for the enterprise using criteria such as fit-for-purpose, cost, value proposition, vision completeness, execution ability and market comparison. I am occasionally also involved in code reviews. * Leading, coaching and mentoring project managers and business analysts to identify work items, assign priorities and resources in order to manage user stories, tasks, backlog and analysis. I help & coordinate with Project & Program delivery lead in setting up the product delivery roadmap and in managing vendor partners. Part of my leadership role is to help & coach scrum masters improve the quality produced by the scrum team and refine definition of done. * Responsibilities include extensive coordination with project managers, delivery managers, business analysts, security architects, and principal architects. I socialize solutions and influence multiple stake holders like Head of Application Development, Head of Cloud, Head of Infrastructure, and Head of Test & Environments by conducting extensive discussions in relation to architectural & operational choices. * I am continually leading DevOps, Containerization, Automation & Microservices adaption strategy. Due to my vast experience and background, I am also involved in developer enablement, SDLC process improvement, technical crises and risk management and coaching the architects, senior engineers and product vendors in identifying the performance bottlenecks to achieve non-functional requirements (NFRs). * Architecture activities include the use & implementation of Amazon AWS, Microsoft Azure, Java, Mulesoft, Spring Boot, Netscaler, Microservices, Asynchronous Messaging, OAuth/OIDC, PSD2, Strong Customer Authentication.   **Client Solutions Ltd -** <http://www.clientsolutions.ie/>  Formerly known as TechData Client Services and Avnet Client Solutions  **Solution Architect & Development Team Manager**, January 2016 - February 2019   * This is the place for a brief summary of your key responsibilities and most stellar accomplishments for company #2. * Tesco Mobile MVN AIMS – 2 Years * RDMA Product – 1 Year * Vayu – Management * AA – DevOps Management * Advanced Analytics R&D Team – Vendor Management * Management of 1 Technical Lead in Cork with 3 developers. * Recruited 3 Senior Engineers and 2 Junior Engineers   **Technical Architect & Team Lead**, April 2014 – December 2015   * This is the place for a brief summary of your key responsibilities and most stellar accomplishments for company #2. * Vayu/Naturgy, Integration Project * Irish Water – Commercial Archive. 3 month project. * Tesco Mobile Ireland – Selfcare – 6 months project. Lead a team of 2 offshore, 1 Cork based and 1 Dublin based members. * Cork Team Technical Leadership * Recruited 1 UX designer   **Software Development Consultant**, February 2013 – March 2014 (Part-Time)   * This is the place for a brief summary of your key responsibilities and most stellar accomplishments for company #2. * Tesco Mobile Ireland – Campaign Manager and Customer Retention   **Distributed Systems Group, University of Dublin - Trinity College -** [www.dsg.cs.tcd.ie](http://www.dsg.cs.tcd.ie)  **PhD Researcher**, July 2009 – April 2014   * Invented routing protocol for wireless sensor network, capable of intelligently providing fault tolerance, energy conservation, congestion and latency reduction depending on the network conditions, as part of PhD thesis. * Developed Peer-to-Peer communication framework over TCP/IP, temporal & spatial aggregation techniques & embedded distributed middleware, as part of EMMON project from 2009 to 2012. * Technical Leadership & Task assignment of 1 researcher in Dublin and 1 researcher in Portugal. * Responsibilities included coordinating with near shore teams spread across EU (Portugal, Italy, UK & Ireland) * Research funded by Lero and European Union FP7   **Research Assistant**, July 2008 – July 2009   * Designed & developed thick client domain modelling & simulation software for geographic visual modelling using Java, PostGIS, PostGreSQL & uDig SDK. * Designed & developed SOAP webservices using Java to enable AI components to fetch simulated sensor readings from the simulator. * Research funded by Enterprise Ireland  Hindsa Technologies Limited - [www.hindsa.com](http://www.hindsa.com) **Software Development Engineer**, November 2006 – June 2008   * Contributed in design, development, testing, quality assurance and customer support of **eXtreme Manager** product, that focused on providing a web based experience for managing software lifecycle using Java and Spring MVC Framework. * Trained in Agile software lifecycle management  Avanza Solutions (Pvt) Limited - [www.avanzasolutions.com](http://www.avanzasolutions.com) **Team Lead**, March 2006 – October 2006   * Lead a small onsite team of 3 members to implement e-Banking suite of products for Bank Muscat International, Kingdom on Bahrain. The product suite consisted of ATM Controller, Financial Middleware, ATM Card printing software, Channels Manager & Operational Data Store, primarily written in Microsoft Visual Basic and C++. * Customer communication and reporting to Bank Muscat International’s Head of IT. * Customer Training Management * Reported directly to the CEO and CTO of Avanza Solutions due to the strategic nature of the project. * Task Management (estimation, tracking and assignment) * Collaboration with onsite & offsite development teams. * Integration with Vendor Partners * Hands-on development & customization of the products. * Detailed data analysis & trouble shooting.   **Software Engineer**, February 2005 – March 2006   * Designed & Developed prototype ATM surveillance software in Microsoft Visual C++ 6.0. * Designed & Developed prototype Bio-metric finger print scan/matching software for additional ATM authentication using Microsoft Visual Basic 6.0 * Received training on ATM Controller and Financial Middleware products. |
| Communication | You delivered that big presentation to rave reviews. Don’t be shy about it now! This is the place to show how well you work and play with others. |
| Leadership | Are you president of your fraternity, head of the condo board, or a team lead for your favorite charity? You’re a natural leader—tell it like it is! |
| Publications | * Mirza, F., Bouroche, M., Cahill, V.: Unstable path routing in urban-scale wsn. ACM SIGBED Review 9(3) (2012) 24–28 * Tennina, S.; Bouroche, M.; Braga, P.; Gomes, R.; Alves, M.; Mirza, F.; Ciriello, V.; Carrozza, G.; Oliveira, P. & Cahill, V. “EMMON: A WSN System Architecture for Large Scale and Dense Real-Time Embedded Monitoring,” In Proceedings of IFIP 9th International Conference on Embedded and Ubiquitous Computing (EUC), 2011, 150-157. |