USMAN ANWAR

SOFTWARE ENGINEER
LinkedIn |GitHub

VISA STATUS: PERMANENT RESIDENT
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ADDRESS: TORONTO, CANADA, M6E4V4

Seasoned Software Engineer experienced in developing applications, databases and cloud computing solutions. Smart professional with proven troubleshooting and debugging capabilities for resolving complex technical issues. Detail-oriented, organized and meticulous employee. Works at fast pace to meet tight deadlines. Enthusiastic team player ready to contribute to company success.

WORK EXPERIENCE

SOFTWARE ENGINEER

DP WORLD | Seoul, South Korea

JULY 2020 – OCTOBER 2023

- Owned all "Edge Gateway" services of an IOT project at a Container Terminal Port.
- The goal centered on crafting interfaces that facilitated seamless interaction between devices and the IOT system.
- Designed and developed multiple microservices to expose IOT devices/equipment to the system via various communication protocols like HTTP and TCP/IP sockets.
- These interfaces were meticulously aligned with the message specifications provided by different vendors
- All services were designed with scalability in mind to effectively manage the load of hundreds of devices transmitting data/events per second.
- Played a comprehensive role in the entire service development cycle, covering planning, testing, and deployment phases.
- Actively collaborated with the DevOps team to implement a comprehensive CI/CD process using Microsoft Azure repositories and build pipelines, ensuring efficiency and strict adherence to standards
- Involved in comprehensive management of development, UAT, and production environments utilizing Docker swarm.

TECHNOLIGIES:
Java8, Java11, Spring Boot, Spring Cloud, Spring Integration, Infinispan, Kafka, Swagger, PostMan, jMeter, Eclipse, DBeaver, PostgreSql, Docker Swarm, Microsoft Azure DevOps, DrawIO, Linux, Maven, Git, redmine, REST, MSA

SOFTWARE ENGINEER

IbizSoftware inc. | Seoul, South Korea

DECEMBER 2017 – JULY 2020

- Worked on a client's (Korean Air) project to migrate a monolithic system to a microservices architecture deployed on Amazon cloud.
- Specifically, focused on implementing a unified authentication system for various applications across different domains within Korean Air internal departments. This involved deploying OAuth 2.0 on Amazon Lambda and conducting a comparative analysis against a prototype using Amazon Cognito identity services.
- Involved in handling service logs and their storage in Amazon Kinesis service.
- **Blockchain (Ethereum) related:**
  - Developed different modules of the "Berith" platform. The "Berith" is a platform offering blockchain based financial services to its customers; https://wallet.berith.co
  - Developed a project to automate the deployment of the Ethereum blockchain nodes (private/public).
  - Management and configuration of internal private blockchain networks.

TECHNOLIGIES:
Java8, Java11, Spring Boot, Spring Cloud, MariaDB, Mybatis, Elasticsearch, Redis, HTML, JavaScript, JQuery, Nodejs, AWS EC2, AWS Kinesis, AWS Congnito, AWS Lambda, AWS pipelines, DrawIO, Linux, Maven, Git, Redmine, REST, MSA, OAuth2.0, Ethereum Blockchain, Parity, Geth, Smart Contracts, Truffle

SOFTWARE ENGINEER

NamuTech | Seongnam-si, South Korea

OCTOBER 2016 – SEPTEMBER 2017

- Modified a Java based open-source project, "OpenBaton", an ETSI MANO compliant project, for a client (Samsung network lab) for 5G Virtual Network Functions' (VNFs) orchestration demonstration.
- Implementation of Netconf protocol layer in the above-mentioned project.
- Automated the deployment of OpenStack instances.

- OpenStack configurations including PCI-pass-through, CPU pinning and NUMA cell allocation etc.
- Researched and consulted about the industry standards for describing VNFs, initialization of VNFs and handling life-cycle events, i.e. OASIS TOSCA, ETSI MANO, ETSI VNF Packaging specifications.

TECHNOLIGIES:
Java8, Spring Boot, MariaDB, HTML, JavaScript, JQuery, Linux, Maven, Git, RedHat, KVM, Virtual Machines, OpenStack.

SOFTWARE ENGINEER

i2c inc.| Lahore, Pakistan

DECEMBER 2013 – AUGUST 2014

- Front-end and Back-end development for the in-house J2EE web applications responsible for the
- prepaid cards payment processing.
- Customization of web components of Struts 2.0 framework, for localization and validation support.
- Testing and debugging of payment processing applications.

TECHNOLIGIES:
Java8, Spring Boot, Struts 2.0, JSPs, MariaDB, HTML, JavaScript, JQuery, Linux, Maven, Git.

JAVA DEVELOPER

All In One Technology | Lahore, Pakistan

JUNE 2012 – DECEMBER 2013

- Worked as a full stack developer for responsible for the development of front and back-end development of project components.
- Reduced software bugs by conducting thorough unit testing and collaborating with QA teams.
- Developed user-friendly interfaces for web applications, improving user experience and satisfaction.
- Collaborated with cross-functional teams to design, develop, and launch innovative software solutions.
- Ensured seamless integration of Java-based applications with databases, APIs, and other systems.

TECHNOLIGIES:
Java7, Spring MVC, JSPs, JSF, Hibernate, MariaDB, HTML, JavaScript, JQuery, Maven, Git, SVN

SKILLS			
• **Software Development**	• **JQuery**	• **Jenkins**	• **Geth**
• **Java**	• **HTML**	• **Hibernate**	• **Web3j**
• **Spring Framework**	• **CSS**	• **MyBatis**	• **Nodejs**
• **JSP/Servlets**	• **MySql**	• **KAFKA**	• **Truffle**
• **Struts 2.0**	• **Postgres**	• **OpenStack**	• **Azure**
• **JSF**	• **Elastisearch**	• **Docker Swarm**	• **AWS**
• **Javascript**	• **Redis**	• **Linux**	
	• **Git**	• **Ethereum**	
	• **SVN**	• **Parity**	

EDUCATION

MASTER OF COMPUTER ENGINEERING

AJOU UNIVERSITY | Suwon, South Korea

SEPTEMBER 2014 – AUGUST 2016 GPA: 4.06/4.50

PUBLICATIONS:

SAF: States Aware Fully Associative FTL for Multitasking Environment | SpringerLink
Log-buffer aware cache replacement policy for flash storage devices | IEEE Journals & Magazine | IEEE Xplore

BACHELOR OF COMPUTER SCIENCE

GOVERNMENT COLLEGE UNIVERSITY (GCU)| Lahore, Pakistan

SEPTEMBER 2008 – JUNE 2012 GPA: 3.31/4.00