**Uzair Ahmed**

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**Software Architect**

Accomplished Software Architect with a diverse technical skillset, demonstrating strong leadership in cross-functional teams. With years of web and distributed systems development ability to specialize in building secure, cost-efficient, highly available & scalable services, with a record of delivering complex projects within tight schedules.

**Technical Skills**

**Amazon Web Services (AWS):** Hands-on experience with services such as Identity & Access Management (IAM) and Security, VPC and Networking, EC2, Elastic Container Service (ECS), Fargate, Lambda, S3, RDS, Aurora, DynamoDB, Storage Gateway, SQS

**Azure:** Proficient in designing secure, highly available, and scalable cloud-based SaaS solutions using Azure

**Microservices and Service-Oriented Architecture (SOA):** ASP .Net Web API, RESTful APIs

**Event-driven Architecture and Message Oriented Middleware:** Kafka, Amazon SQS, SQL Server Service Broker, Microsoft Message Queuing

**Programming Languages:** C#, Python, Java (Prior experience)

**Web Development:** ASP .Net Core, SignalR (WebSocket), Spring MVC (Prior Experience), JavaScript, HTML

**Databases:** Microsoft SQL Server, Aurora PostgreSQL, Amazon DynamoDB, Snowflake

**Authentication and Authorization:** ASP .Net Identity Framework, JWT, OAuth 2.0 and OpenID Connect (Single Sign-On)

**Analytics:** Microsoft Power BI, Amazon QuickSight, Amazon Athena, DataDog

**IOT (Internet of Things):** HiveMQ, MQTT

**Video Streaming:** Hands-on experience and knowledge of WebRTC, HLS, DASH, Ant Media Server

**Certification**

AWS Certified Solutions Architect – Professional, <https://www.credly.com/users/uzairahmed>

**Professional Experience**

**Johnson Controls,** USA **11/2022-08/2023**

**Senior Software Architect, Open Blue Cloud Platform**

Spearheaded a global video streaming project, involving collaboration with three engineering teams situated in three different continents, demonstrating robust cross-functional coordination and strong leadership skills.

* Architected a new multi-tenant Video Streaming SaaS system which can stream video from the on-premises cameras from internet.
* Delivered this complex project on time from start to finish even with an aggressive timeline and challenges.
* Served as a key liaison between engineering, customer success teams, and stakeholders, driving forward the alignment of technical and business goals, and ensuring customer-centric development.
* Guided the customer success team in understanding the product intricacies, ensuring superior customer service and client retention.
* Championed security and ensured that we didn’t compromise on security or cut corners on important best practices.
* Drive compliance processes such as Export Review, Supplier Assessment, License Procurement etc.
* Conduct interviews and participate in hiring decisions.

**PrimeTSR,** USA **05/2021-10/2022**

**Software Architect/Lead**

Significantly reduced the time-to-market for converting behemoth of multiple old desktop applications into a SaaS offering by innovatively using a combination of web application and AWS AppStream 2.0. Applications converted included complex applications with several hundred Win Forms, GIS and Mapping Application and a custom 2D sketching application.

* Transformed a single-tenant web application into a multi-tenant system, enabling cross-tenant access and reporting by leveraging PostgreSQL Row Level Security features.
* Boosted system security and user experience by architecting and implementing Single Sign-On.
* Enhanced system scalability and simplified the architecture of the legacy web application by replacing stateful WebSocket code with the RESTful service invocations from the web app on the localhost.
* Improved the flexibility and configurability of the system by implementing a custom rule-engine framework and designing a rules configuration UI to allow developers to easily implement and manage hierarchical rules and configurations to deal with different business rules and configurations for different municipalities, counties, and states.
* Improved operational excellence by enhancing the logging and monitoring implementation using DataDog.

**HID Global,** USA **02/2017-04/2021**

**Senior Software Engineer, Financial Instant Issuance**

Architected and implemented many critical parts of a new cloud-hosted multi-tenant system which enables instant in-branch printing and activation of customizable Payment Cards. Ensured compliance with stringent PCI security standards. Collaborated with the entire team on all technical decisions.

* Spearheaded the development of a new billing system from the ground up, employing industry best-practices. This streamlined billing process led to a significant reduction in billing errors, enhancing operational efficiency. Successfully rolled out the system to production, provided ongoing support and maintenance, and crafted comprehensive user guides and deployment documents to ensure seamless user adaptation.
* Conceived and developed a user-friendly printer configuration website from scratch for the new HID Card Printers.

**Additional Relevant Experience**

**NCR Corporation,** USA

**Software Development Engineer III**

**Systems Ltd.,** Pakistan

**Software Architect**

**Vaco, Houston,** USA

**Sr. Software Consultant**

**Insperity,** USA

**Sr. Software Engineer**

**MatchPoint Solutions,** USA

**Sr. Software Consultant**

**Microsoft Corp.,** USA

**Software Development Engineer II**

**Multiple Companies,** Pakistan

**Software Engineer**

**Education**

**Bachelor of Science, (B.S.), Computer Science**

University of Karachi, Pakistan