

ARMUGHAN AHMED

Software Engineer

+915739711228 armughan.ahmed@yahoo.com www.linkedin.com/in/armughanahmed
github.com/armughanahmed Gieshügeler Str 16, 97218 Gerbrunn



SUMMARY

Full Stack Developer with over **3 years** of experience in **.NET, Spring Boot, Angular, Azure**, and **DevOps**. Led development of several projects estimating their worth over **\$8 million**. I'm a motivated software engineer who has developed, designed, and maintained several high quality software.

My Portfolio Website

SKILLS

Backend:

.NET, C#, Azure Functions, Node.js, Express.js, Nest.js, Java, Spring Boot, Spring Cloud, Microservices, JavaScript, TypeScript, Python, C, C++, Go, Blockchain, Solidity, Ethereum, web3.js, Smart Contracts, Openzeppelin, Hyperledger Fabric, SQL, SQL Server, MySQL, PostgreSQL, NoSQL, MongoDB, Entity Framework, JPA, Hibernate, Git

Frontend:

Angular, React, RxJS, PrimeNG, Angular Material, JavaScript, TypeScript, HTML5, CSS3, SCSS, Bootstrap, Tailwind

Infrastructure:

Azure, AWS, GCP, CI/CD, Jenkins, Docker, Kubernetes, Terraform, Redis, RabbitMQ, Kafka, Azure Service Bus, Grafana, Ansible

Testing: Chai, Mocha, xUnit, JUnit, Mockito

EXPERIENCE

CONSULTANT DEVELOPMENT

Systems Limited
systemsLtd.com

Karachi, Pakistan

07/2021 - 04/2024

Y. Hata Customer Portal

- Worked on a customer portal and achieved a remarkable **5x** performance boost compared to their old ERP System
- Integrated **Microsoft Dynamics D365** using **OData** Protocol in the portal and created **CronJobs** for syncing data periodically
- Created REST APIs with **.NET 6, Spring Boot 3** and seamlessly deployed application on **Azure App Service** using **Azure DevOps CI/CD**
- Developed frontend components using **Angular 17** used **modular design** and **smart&dumb** components pattern techniques
- Enhanced the data synchronization architecture, achieving a **10x** efficiency using **parallel processing** with **Azure Queue Service** and **Entity Framework** Bulk methods.
- **Success Story:** [Y. Hata Customer Portal](#)

Live Commerce - The Ultimate Livestreaming Shopping Platform

- Ideated and Created a Live Streaming Platform for sellers where they can host **livestreaming** shows to sell directly to a global audience
- Compressed, Encoded, and transcoded videos in different formats to serve content more efficiently using **Azure Media Services**
- Implemented a Live Comment Feature using **Azure SignalR**, where buyers could interact with sellers during their live streams
- Rest APIs were built using **.NET 6** and frontend was built using **Angular 13**
- **Whitepaper:** [Live Commerce](#)

JNI Sales Portal Mobile And Web

- Built an Enterprise Portal for a merchandise distribution company and integrated **Microsoft Dynamics (D365)**
- Reduced the infrastructure cost by more than **80%** by devising a **serverless architecture** using **Azure Functions**
- Implemented an **event driven** architecture using **Azure Queue Service** and **SignalR** for real time data sync
- Implemented **Azure AD** Authentication using **MSAL**
- Reduced the upfront infrastructure and computational cost for JNI and **autoscaled** the application during sales by
- Reduced JNI's Branding Consultant's ordering processing time to almost **5x** compared to their legacy portal
- **Website:** [MyNadeI](#)

EXPERIENCE

DEVOPS INTERN

iVolve Technologies Pvt. Ltd.
ivolve.io

Karachi, Pakistan
02/2021 - 06/2021

QCloud - Pakistan's First Public Cloud

- Created a **CI/CD** Pipeline for QA Environment using **Jenkins** and **Groovy Script**
- Built an Infrastructure as Code using **Terraform**
- Created deployment and service files for **Keycloak** and deployed it on **Kubernetes cluster**

BLOCKCHAIN ENGINEER

Xord
xord.com

Karachi, Pakistan
08/2020 - 11/2020

XIO Flash Token

- Created Flash Token Smart Contract using **Solidity 0.7.4** and **Openzeppelin** on **Ethereum Chain**
- Created Subgraphs using **The Graph Protocol** for querying on the Ethereum Chain
- Built a tweets scrapper using **Python 3**, that scraped tweets of XIO token holders who participated in the Flash staking competition
- Created an XIO Token Distribution Bot using **Node.js**, **Web3.js**
- Researched on gas fees optimizations and proposed a **Layer 2** solution on **Matic Network**

EDUCATION

MSc Informatik

Julius Maximilians Universität Würzburg

Würzburg, Bavaria
04/2024 - Present

BS Computer Science

National University of Computer & Emerging Sciences, German grade 2,4/1,0

Karachi, Pakistan
08/2017 - 07/2021

PERSONAL PROJECTS

Blocktrade - Supply Chain Management Using Blockchain (FYP)

github.com/armughanahmed/blocktrade

11/2020 - 07/2021

Node.js, Express, Golang, React.js, MySQL, Hyperledger Fabric, CouchDB, Docker

- Blocktrade is a supply chain management system which optimizes the supply chain processes. The transactions are recorded on a private blockchain i.e. **Hyperledger Fabric** and the state is maintained using **CouchDB**. smart contracts are made using **Golang**
- Certificate Authority for each peer organization. Transactions are signed using each organization's private key
- **Kafka** consensus used by the ordering service
- End-to-End consignment tractability
- Verification of documents involved in Supply Chain process
- Provides shipping companies information to the cargo owner based on the selected schedule

CERTIFICATIONS AND AWARDS

Star Of The Quarter

Systems Limited, 2023

Microsoft Certified: Azure Fundamentals

Microsoft, 2022

Star Of The Quarter

Systems Limited, 2022

Dean's List

National University of Computer & Emerging Sciences - FAST, 2022

LANGUAGES

English (C1)

German (Beginner)