Ahmed Nawaz Khan

Software Engineer

I love being an engineer and solving engineering problems. I have built around 15 enterprise projects using different technologies and I enjoy solving complex problems and delivering high-quality solutions that meet the clients' expectations. I play a lot of chess

- ✉ ahmednawazkhan5@gmail.com
- ahmednawazkhan.github.io
- 📱 03325350811
- in linkedin.com/in/ahmednawazkhan

EDUCATION

Bachelor of Computer Engineering
Ghulam Ishaq Khan Institute of Engineering Sciences and Technology

05/2015 - 05/2019   3.51/4.00

WORK EXPERIENCE

Staff Software Engineer
10Pearls

11/2020 - Present   *Islamabad Pakistan*

Implemented and practiced Agile methodologies such as Scrum and Kanban. My responsibilities include software development, requirement grooming, pull request reviews, and software design and architecture

Achievements

- 10Pearls University Official Trainer to conduct trainings
- Conduct hiring and in-house interviews
- Developed 5 enterprise projects for different clients

Link : https://www.10pearls.com

Software Engineer
Afiniti

06/2019 - 11/2020   *Islamabad Pakistan*

As a software engineer, I built two applications. One helped Afiniti monitor all its microservices. Other was a configuration service that stored configurations for different microservices.

Achievements

- Deployed application to conduct company wide surveys
- Involved with HR to visit Universities to promote Afiniti
- Worked with SecOps to secure public web applications
- Developed 2 core Afiniti components

Link : https://www.afiniti.com

Webmaster, GIK Institute
GIKI WebTeam

04/2018 - 04/2019   *Swabi Pakistan*

Led a team of 29 members for continuous development and maintenance of my university's official website (giki.edu.pk) and its web servers. Implemented version control using GIT

Tasks

- Web Development and Database Management
- Server Upgrades and Security Patches
- Network Administration
- Learnt Javascript, MySQL, Testing Techniques

Link : www.giki.edu.pk/webteam

SKILLS

`Golang` `TypeScript` `Node.JS` `AWS`
`PostgresSQL` `Docker` `NestJS` `System Design`

PROJECTS

Audio & Video Interpreting Service (Golang, GCloud)

- My current project is a Golang application that has a web and mobile interface. It allows the customer to hire an interpreter for him against the desired language on an audio or video call. A one-to-one session call is generated natively or on integrated Zoom. I am responsible for active development, grooming tasks, reviewing PRs, and planning and architecture

Configuration Service (Node, NestJS, Postgres)

- It was a multi-tenant application to store configurations for multiple microservices. These configs were necessary for them to start and operate. JSON schema was used to define a structure in the Postgres database. Configuration for a microservice is done by a configuration engineer using a web Interface. When Afiniti starts, different services fetch its configuration from config server

Recruitment Application (NodeJS, KoaJS, AWS)

- I was involved in the development, task grooming, and reviewing PRs. This project included Salesforce dashboards and Elasticsearch with a sync service that synchronizes data between these data sources. It was deployed on AWS. I created a complete cloud infrastructure on AWS that includes ECS containers, lambda functions, Load balancers, CloudFront, and CI/CD pipeline

Microservices Monitoring System (Golang)

- Created 3 variants of a monitoring system in Node, Golang, and Java. SNMP protocol was used in the Java variant to create an SNMP agent. The product was helpful in monitoring a huge microservices architecture. We can easily monitor any microservice, database, or server running on the client side using an interactive dashboard that showed different signals

Malware Detection with Custom Neural Network (C++)

- For this project, we had to detect malware from Windows' executable files. The file normally called a PE file, is first parsed and converted to a feature vector (floating point array). That vector along with some entropy and standard deviation calculations is passed through a custom-built feed-forward part of the neural network which outputs a score between 1-100 indicating if the file is infected. I built neural network from scratch

ACHIEVEMENTS

Tenpearls University Trainer
conducted different training's on code quality, git and react

Web Master GIKI Webteam (04/2018 - 04/2019)

2nd Best Final Year Project Award at GIKI
It was sponsored by Pakistan Airforce

Got Full Scholarship At GIK Institute

Huwaei ICT Skill Competition National Finalist
I was ranked among the top 25 students in Pakistan.