Ahmed Nawaz Khan

Software Engineer

I love being an engineer and to solve engineering problems. I play a lot of Rainbow Six Siege

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EDUCATION

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

05/2015 - 05/2019   *3.51/4.00*

Courses

- Software Engineering
- Data Mining
- Artificial Intelligence
- Data Structures and Algorithms
- Object Oriented Design
- Project Management

WORK EXPERIENCE

Staff Software Engineer
10Pearls

11/2020 - Present   *Islamabad Pakistan*

I am involved in development of core applications for tenpearl's top clients like POWERSCHOOL, SOPHOS and HBL. I am actively participating to conduct different trainings and in-house development

Achievements/Tasks

- Promoted to Staff Engineer in January 2022
- Worked with Habib Bank, SOPHOS and POWERSCHOOL
- SOPHOS Malware detection (mentioned in projects)
- PowerSchool Data Integrity Support tool (mentioned in projects)
- HBL integration with SBP RAAST (mentioned in projects)

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

Software Engineer
Afiniti

06/2019 - 11/2020   *Islamabad Pakistan*

As software engineer I was involved in development of software products that helped Afiniti monitor all its micro services to ensure smooth operations.

Achievements/Tasks

- Promoted to Software Engineer in January 2021
- Configuration Service (mentioned in projects)
- Monitoring Services (mentioned in projects)

Link : https://www.afiniti.com

Webmaster, GIK Institute
GIKI WebTeam

04/2018 - 04/2019   *Swabi Pakistan*

Lead a team of 29 members for continuous development and maintenance of my university's official website (giki.edu.pk) and its web servers.

Tasks

- Active Development
- Server Upgrades and Security Patches
- Network Administration

Link : www.giki.edu.pk/webteam

SKILLS

TypeScript   Node   React   Postgres

MySQL   Docker   NestJS   Laravel

System Design

PROJECTS

Malware Detection with Custom Neural Network (C++)

- For this project we had to detect malware from windows executable files. The file normally called 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 neural network which outputs a score between 1-100 indicating if the file is infected

Configuration Service (Node, NestJS)

- Our company needed a service to store configurations for more than dozen of microservices comprising one big product. I was part of the team to build a scalable, generic, multi tenant configuration service api to store configurations for any possible service. When configuration is done by a configuration engineer for that service, it can call the api at boot time to fetch its configuration

Microservices Monitoring System (Node, Java, Go)

- Created 3 variants of a monitoring system in Node, Golang and Java. SNMP protocol was used in Java variant to create a SNMP agent. The product was helpful to monitor a huge microservices architecture. Older variants were client based where we were interacting directly with servers using different native client tools to fetch required information.

Habib Bank Integration with State Bank (SBP) RAAST (NodeJS, NestJS)

- my recent project is in fintech industry which requires integration of habib bank with state bank's RAAST system. I am involved in active development and system design. My major contribution is a store a forward (SAF) microservice that acts as retry mechanism for failed transactions and failed jobs

FNZ Insurance Work Requests Tracker (PHP, Laravel)

Support Tool For Data Integrity (Node, AWS, React)

Pakistan Air Force Sponsored Autonomous Tunnel Mapping (Python, Raspberry Pi, Pixhawk)

ACHIEVEMENTS

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

2nd Best Final Year Project Award at GIKI

Pakistan Air Force Sponsored Final Year Project

Got Full Scholarship At GIK Institute

On Dean Honor list in 5 semesters
scored 3.5+ gpa in 5 semesters and was awarded DHL award 5 times

Huwaei ICT Skill Competition National Finalist
Represented GIK Institute at National Finals for Huwaei ICT skill competition. I was ranked among top 25 students in Pakistan.