Raza Hussain Akbari

Software Engineer

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LinkedIn | **Github** | **Portfolio**

With a Masters degree in Data Science firmly in hand, I'm currently navigating the exciting realm of Full Stack Software Engineering. My toolkit boasts a versatile array of programming languages including Python (Flask, FastAPI, Numpy, transformers), Typescript (React.js, Next.js, Node.js), and Java (Spring Boot), complemented by a knack for crafting SQL queries with finesse. Additionally, I possess a detailed understanding of cloud computing. This includes familiarity with cloud platforms such as Amazon Web Services (AWS), Microsoft Azure, Openstack and Google Cloud Platform (GCP), as well as concepts like virtualization, containerization, and serverless computing.

Professional Experience

iVolve Technologies   **November 2021 - Present**

Software Engineer

- Championed the design and development of cutting-edge full-stack web applications, showcasing expertise in both frontend and backend technologies.
- Orchestrated the seamless integration of React.js, Redux, Next.js, and webpack in crafting dynamic user interfaces; optimized functionality and design with Material UI and Tailwind CSS, resulting in a 30% increase in user retention.
- Skillfully integrated frontend components with Flask, FastAPI, Nest.js, Spring Boot, and Redis on the backend, ensuring robust and cohesive application architecture.
- Developed and maintained RESTful APIs to facilitate smooth communication between diverse front-end and back-end systems, fostering seamless data exchange and interoperability.
- Spearheaded the integration of various payment gateways such as Stripe and Abu Dhabi Pay, elevating the functionality and monetization potential of Software as a Service (SaaS) applications.
- Proficiently architected and managed cloud solutions on VMWare, AWS (EC2, S3 Bucket, Lambda), and OpenStack (Red Hat and Canonical), optimizing performance, scalability, and cost-effectiveness.
- Led successful migrations of legacy frontend codebases, achieving significant enhancements in build time, memory utilization, and overall system performance, ensuring a delightful user experience.
- Implemented robust data storage solutions using MySQL and PostgreSQL, ensuring efficient data management and retrieval for enhanced application performance.
- Leveraged Docker for streamlined containerization, facilitating seamless deployment processes and enhancing portability across diverse environments.
- Demonstrated expertise in Kubernetes cluster management for both frontend and backend applications, ensuring high availability, scalability, and fault tolerance.
- Conducted thorough debugging and troubleshooting to identify and resolve complex software-related issues, optimizing performance and stability.
- Collaborated with cross-functional teams to gather requirements, design system architecture, and ensure successful delivery of software projects.

iVolve Technologies   **August 2021 - November 2021**

Trainee Software Engineer

- Attended training sessions and workshops to enhance technical skills in programming languages such as Java and Typescript
- Contributed to the documentation and maintenance of software development processes, including coding standards, best practices, and technical specifications.
- Assisted senior software engineers in developing and maintaining software applications, while gaining hands-on experience with coding and debugging.

The General Tyre and Rubber Company of Pakistan Limited   **May 2019 - June 2019**
Internee Engineer

- **Internee duties included: Programming and debugging PLCs (Programmable logic controller), Commissioning of New Fabric Cutting Machine for tyres, Electrical System Analysis (monitoring the stats of the online feeders), UI designing of Siemens HMI.**
- **Collaborated with cross-functional teams to gather and analyze data for process improvement initiatives**

Education

Master of Science - Data Science (December 2020 - February 2023)

NED University of Engineering and Technology

- **Thesis: A Novel Approach to Improve Question Answering System using OpenAI GPT3**
  Developed a Question Answering System by integrating OpenAI GPT-3 APIs to train models and comparing outcomes and losses of the trained GPT-3 model with other previous models like Distilled-BERT.
- **Studied Masters in Data Science which includes courses related to Data Warehousing, Data mining, Machine Learning, Big Data Analytics, Natural Language Processing, Business Intelligence.**

Bachelor of Science - Electrical Engineering (January 2016 - February 2020)

Sir Syed University of Engineering & Technology

- **Studied Electrical Engineering which includes courses related to Power Generation, Power Transmission, Power Distribution and Utilization, Electrical Machines, Automation, Power Electronics. Designed and developed projects related to Programming (C, C++, Python and Java), Automation and Robotics via Arduino and Raspberry Pi, some of which are in use at my home to date.**

Key Skills

React.js

Next.js

Nest.js

Node.js

Spring Boot

FastAPI

Flask

Typescript

Javascript

Java

Go

Python

Problem Solving

Material-UI

Tailwind CSS

AWS

SQL

Bash

Linux