

Raza Hussain Akbari

Software Engineer

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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. A quick learner by nature, I thrive on mastering new tools and technologies with ease.

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.
- Mastered the art of crafting dynamic user interfaces with seamless functionality using a stack that includes React.js, Redux, Next.js, and webpack, with a flair for Material UI and Tailwind CSS to deliver visually stunning and responsive designs.
- Skillfully integrated frontend components with Flask, 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
Internee Engineer

May 2019 - June 2019

- 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

Typescript

Javascript

Java

Go

Problem Solving

Material-UI

Tailwind CSS

AWS

SQL

Python

Bash

Linux