

# Raza Hussain Akbari

## Software Engineer

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[LinkedIn](#) | [Github](#) | [Portfolio](#)

With a Master's degree in Data Science and extensive experience in Full Stack Software Engineering, I bring a robust skill set to the table. Proficient in Python (Django, Flask, FastAPI, Numpy, transformers), Typescript (React.js, Next.js, Node.js), Go, and Java (Spring Boot), I excel in developing comprehensive software solutions. My expertise extends to SQL query optimization and cloud computing, including AWS, Microsoft Azure, OpenStack, and GCP. I have a strong understanding of virtualization, containerization, and serverless computing, enabling me to deliver scalable and efficient applications.

## Professional Experience

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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 utilized Django, 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**  
**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**

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**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.