Syed Mohd Haider Rizvi

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Summary

Highly analytical and results-driven Software Engineer with 4 years of experience specializing in Java, Python, Spring Boot, and cloud technologies (GCP, AWS). Proven ability to develop and optimize scalable microservices and AI-powered solutions for the financial sector. Delivered \$120K annual savings at Ford and improved API performance by 5x at HSBC. Creator of open-source projects PyVisualizer (architectural intelligence) and PipelinelQ (predictive analytics for BigQuery).

Skills

- Programming Languages: Java, Python, SQL
- Frameworks & Tools: Spring Boot, FastAPI, Docker, Kubernetes, LangChain
- Cloud Platforms: Google Cloud Platform (GCP), Amazon Web Services (AWS)
- Databases: PostgreSQL, NoSQL, BigQuery
- Development Practices: Microservices Architecture, CI/CD, Unit Testing, RESTful APIs, System Design, Object-Oriented Programming
- Al & Data: Generative Al, Data Visualization, Prompt Engineering Application, Machine Learning
- Leadership & Collaboration: Agile Methodologies, Stakeholder Collaboration, Team Mentoring

Experience

Senior Software Engineer

FORD

Chennai, TN, IN 08/2024 - Present

- Spearheaded the development of a large-scale data product handling 25 PB of data, focusing on feeds processing, prediction and scalability.
- Developed a web-based automation tool within a limited timeframe, reducing manual feed setup time from 3-5 hours to 30 seconds, resulting in \$120,000 in annual cost savings.
- Collaborate with global teams and report directly to the Global Manager (USA), ensuring alignment on project goals and delivering high-quality, scalable solutions that meet business objectives.

Senior Software Engineer

HSBC

Pune, MH, IN 01/2022 - 08/2024

- Led the design and development of enterprise-level microservice applications for Kinetic, generating over \$1 billion annual turnover
- Developed NLP-powered AI solutions using OpenAI's GPT models, integrated with enterprise data pipelines, enabling users to
 create SQL queries via natural language, reducing development time by 80% and improving data accessibility for financial reporting.
- Enhanced API performance by 5x, enabling faster transactions for 300,000 business customers.
- Optimized microservice architecture, reducing infrastructure costs by 20% while ensuring high availability and compliance with financial industry regulations.
- Collaborated with global teams to deliver end-to-end scalable cloud solutions using GCP, Docker, Kubernetes, and CloudSQL, enabling seamless CI/CD pipelines and reducing deployment time.
- Mentored new joiners and juniors, providing guidance on development best practices and financial technologies.

Programmer Analyst Trainee

Cognizant

Bengaluru, KA, IN 08/2021 - 01/2022

- Implemented Big Data solutions using Java, SQL, Hadoop, and AWS for a leading US insurance company, contributing to improved data processing and analytical capabilities.
- Initiated a knowledge-sharing forum for new engineers, fostering collaboration and accelerating the adoption of new technologies.

Selected Projects

- <u>PyVisualizer</u> (Open Source): An architectural intelligence tool that transforms Python codebases into interactive diagrams, leveraging AST parsing and D3.js visualizations. Enables rapid understanding of code structure and dependencies.
- <u>PipelinelQ</u> (Open Source): An AI-powered platform providing predictive intelligence for BigQuery workflows. Features ML models that predict query performance with up to 84% accuracy, a dashboard for visualizing query complexity, and pre-execution forecasting of resource utilization.
- Business Finance Management (HSBC): Designed and implemented a scalable product for transaction categorization, cash flow analysis, and management, significantly improving financial insights for 500K+ businesses.
- MI Dashboard and Analysis (HSBC): Created a comprehensive dashboard for business decision-making using BigQuery, Dataflow, and Looker, enabling real-time, data-driven financial insights with 0 error rate.

Education

Bachelor of Technology

SRM CEM

08/2017 - 08/2021

- Major in Computer Science and Engineering
- Won Best Project Award

Awards & Achievements

Innovator, Ford (2024)
 Pat on the Back, HSBC (2024)
 Rated Top Performer, HSBC (2023)
 GCP Cloud Hero (10/2023)