Vraj Shah

+19029941436 | shahvraj2016@gmail.com | linkedin.com/in/vraj-shah | github.com/shah-vraj | portfolio | Blog

Professional Summary

A highly **motivated software developer** with expertise in **Python, FastAPI, SQL, and data processing**, passionate about building scalable data-driven solutions. Seeking to leverage my experience in **database optimization, API development, and data manipulation** to contribute to Data Platform and drive innovation in the industry.

Technical Skills

Languages: Kotlin, Swift, Java, JavaScript, TypeScript, Python, SQL, C# (Basic)

Frontend Development: ReactJS, Next.js, Angular, HTML5, CSS3, Bootstrap, NPM

Data Processing & Analysis: Pandas, OpenCSV, ETL Pipelines, Data Cleaning, Data Transformation

Backend Development: FastAPI, Node.js, Spring Boot (Java/Kotlin), RESTful APIs, API Optimization

Databases: MySQL, PostgreSQL, MongoDB, SQLite, SQL Server, Oracle

Cloud & DevOps: AWS, GCP, Azure, Docker, Kubernetes, Distributed Systems, Firebase, CI/CD Pipelines (GitHub Actions, GitLab CI)

Testing & Version Control: JUnit, Mockito, Espresso, API Performance Tuning, Debugging, Code Reviews, Git

UI/UX: Figma, Wireframing, Accessibility (WCAG)

Soft skills: Strong communication, Problem solving, Teamwork and collaboration, Adaptability, Attention to detail, Critical thinking, Time management, Ability to learn continuously

Work Experience

Simform Solutions **Dec 2021 - Nov 2023**

Software Engineer *Ahmedabad, India*

- **Collaborated with cross-functional teams** to design and develop high-performance APIs using FastAPI and Python, **reducing response times by 40%.**
- **Designed scalable backend services** with Spring Boot (Java/Kotlin) and Node.js, **improving API efficiency by 35%,** enabling seamless multi-user interactions.
- **Optimized complex SQL queries in PostgreSQL and MySQL**, improving database efficiency and reducing execution times by 30%.
- **Implemented Pandas-based data pipelines**, automating data transformation tasks and ensuring data integrity for large-scale fintech applications.
- **Streamlined CI/CD pipelines** using GitHub Actions and GitLab CI, **reducing deployment time by 50%** and enhancing release efficiency.
- C**onducted thorough debugging** and troubleshooting, **reducing system failures by 50%** through proactive issue resolution and performance tuning.
- **Engaged in code reviews** and version control workflows using Git and GitHub, improving code quality and collaboration across teams.

Education

Dalhousie University **Jan 2024 - Sep 2025**

Master of Applied Computer Science (Co-op Candidate) | ***GPA: 4.07/4.3*** *Halifax, Canada*

Charusat University **Jun 2018 - Apr 2022**

Bachelor of Computer Engineering | ***GPA: 8.7/10*** *Gujarat, India*

Projects

ServiceHub | *Source Code* **ReactJS | Spring Boot (JAVA) | MySQL**

- Developed a scalable web application using **ReactJS**, **implementing modular UI components for a seamless user experience**. Integrated lazy loading and performance optimizations, **reducing page load time by 40%**.
- **Applied Object-Oriented Programming principles** (e.g., classes, objects, inheritance) to design modular and reusable code for the backend, ensuring maintainability and scalability.
- **Architected backend using Java Spring Boot and integrated it with a ReactJS frontend, achieving 99.9% uptime** and enabling seamless real-time interactions among over 1,000 active users.

K8s Microservices | *Source Code* **Spring Boot (Kotlin) | Kubernetes | Docker | CloudBuild**

- **Implemented Kubernetes-based microservices architecture**, creating a highly available system with two Spring Boot containers, **ensuring secure communication and fault tolerance between services**.
- **Deployed microservices using Kubernetes** and automated deployment processes with **CloudBuild**, **improving deployment speed and scalability by 40%.**
- **Worked with Docker containers** to facilitate easy application deployment, **increasing the speed of testing and production cycles** while ensuring a consistent environment across development and production.

ETL on Tweets Data **Python | Pandas | CSV | MySQL | GCP**

- **Developed an ETL pipeline using Pandas and Python** to process and analyze large tweet datasets, automating data extraction, transformation, and loading into a MySQL database.
- **Optimized SQL queries and implemented indexing**, reducing query execution time by 40% and improving overall data retrieval speeds.
- **Designed a distributed database system using MySQL on GCP**, enabling real-time data analysis and ensuring high availability.