VRAJ SHAH

📞 +19029941436 ✉ shahvraj2016@gmail.com in linkedin.com/in/vraj-shah ⌂ github.com/shah-vraj 💼 portfolio ▤ Blog

Professional Summary

A detail-oriented software developer with experience in backend and full-stack development, specializing in API development, database optimization, and cloud-based solutions. Passionate about building scalable and high-performance applications that drive efficiency and sustainability. Adept at working in collaborative environments to solve complex problems and enhance software performance.

Technical Skills

Languages: Kotlin, Swift, Java, C#, SQL, JavaScript, TypeScript

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

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

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

Cloud & DevOps: Azure (Azure SQL Database, Azure Functions), AWS, Docker, Kubernetes, CI/CD Pipelines (GitHub Actions, GitLab CI)

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

Tools: Asana, JIRA, Agile Methodologies

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*

- **Developed and optimized RESTful APIs** using Spring Boot (Java/Kotlin), **achieving a 40% reduction in response times**, enhancing the scalability of applications used by enterprise clients.
- **Designed and maintained backend services** using Spring Boot (Java/Kotlin), **improving API efficiency by 35%** and enabling real-time data processing.
- **Improved SQL query performance for large datasets** in PostgreSQL and MySQL, **reducing execution time by 30%,** leading to faster data retrieval in high-traffic applications.
- **Investigated and resolved production-level bugs**, proactively debugging complex issues to enhance system reliability and **reducing failure rates by 50%**.
- **Implemented CI/CD pipelines** with GitHub Actions and GitLab CI, **decreasing deployment time by 50%,** improving software delivery efficiency.
- **Collaborated with cross-functional teams** (product managers, engineers) to enhance platform functionality, **incorporating user feedback and ensuring a seamless experience**.

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 | *Source Code*   **JAVA | OpenCV | MySQL | GCP**

- **Built a distributed transaction system** using Java, enabling dynamic redirection of queries across multiple MySQL VMs in GCP, supporting **seamless ETL processes for efficient data processing and real-time interactions**.
- **Implemented horizontal and vertical data fragmentation techniques** for a distributed MySQL database ("SocialMedia"), optimizing query performance and ensuring scalability in a cloud-based environment.
- **Integrated and processed a large dataset** of tweets from Kaggle, **automating the ETL pipeline and enhancing system reliability**, while ensuring robust and scalable backend architecture that aligns with distributed database management best practices.