Vraj Shah

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Objective

Motivated Master of Applied Computer Science candidate with over 2 years of experience in software development, comfortable in data analytics, business intelligence, and SQL-driven solutions. Passionate about leveraging analytical skills and database expertise to develop insightful reports, dashboards, and ETL solutions that drive evidence-based decision-making. Excited to contribute to Halifax Regional Municipality's Digital Services team by designing, implementing, and optimizing data-driven applications in a collaborative environment.

Technical Skills

Programming Languages: Python, SQL, Kotlin, Java, JavaScript, TypeScript, Go, C#

Data Analysis & Business Intelligence: SQL Queries, Data Modeling, ETL, Power BI, Tableau, Data Visualization, Report Generation

Databases & Data Management: MS SQL Server, MySQL, Firebase Firestore, Oracle, Data Warehousing Concepts

Backend Development: Spring Boot, Node.js, RESTful APIs, Microservices

Cloud & DevOps: AWS (EC2, S3, Lambda, IAM), Azure, Docker, Kubernetes, CI/CD (GitHub Actions, GitLab CI)

GIS & Analytics Tools: ArcGIS, SAP Business Objects (Familiar), Microsoft PowerApps (Familiar)

Software Development Practices: Agile (Scrum), Object-Oriented Programming, Test-Driven Development (TDD)

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

Work Experience

Simform Solutions   **Dec 2021 - Nov 2023**
Software Engineer   *Ahmedabad, India*

- **Enhanced application performance** by designing and developing scalable backend solutions using Java and Spring Boot, resulting in a **40% improvement in user experience and response time**.
- **Accelerated feature rollouts** by creating reusable backend components, **reducing development time by 30%** and streamlining future implementations.
- **Optimized database performance** by writing efficient SQL queries and stored procedures, **improving data retrieval speed by 50%** and ensuring high data integrity.
- **Reduced deployment issues** by implementing automated CI/CD pipelines using Jenkins and GitLab CI, **decreasing deployment failures by 25%** and ensuring consistent, reliable releases.
- **Improved data-driven decision-making** by integrating RESTful APIs with analytical dashboards, **providing real-time insights** that enhanced business operations.
- **Led unit testing efforts** using JUnit and Mockito, **increasing code coverage by 60%**, significantly improving software reliability and maintainability.
- **Collaborated with cross-functional teams** in an Agile environment, **ensuring a 30% faster turnaround for bug fixes and new features**, leading to enhanced customer satisfaction.

Education

Dalhousie University   **Jan 2024 - Sep 2025**
Master of Applied Computer Science (Co-op Candidate) — **GPA: 4.07/4.3**   *Halifax, Canada*
Relevant Courses: Data Management & Warehousing, Deep Learning Applications, etc.

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**

- **Designed and built a scalable web application** for service providers and requesters, integrating e-signed contracts and feedback systems, **resulting in a 20% increase in user engagement** by enhancing user trust and interaction flow.
- **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.

Data-Driven Business Analytics Dashboard   **Power BI | SQL | Python (Pandas, Matplotlib) | Tableau**

- **Developed a business intelligence dashboard for a retail dataset**, visualizing sales trends, revenue forecasting, and customer segmentation.
- **Integrated data from multiple sources (SQL, CSV, API) and performed ETL operations** to ensure clean and structured data.
- **Designed interactive Power BI dashboards with dynamic filtering**, enabling better decision-making for business stakeholders.