Aharnish Solanki

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Experience

Uffizio | Associate Software Developer   Ahmedabad, GJ, IN | July 2022 – Oct 2022
- **Contributed** on **integration** and **processing** of real-time vehicle telematics data using **Java**.
- Developed and improved **algorithms** for analyzing complex vehicle telematics data. Ensured seamless data flow, enabling real-time insights into fleet operations.
- Architected **Restful APIs** that facilitated the processing and analysis of extensive vehicle telematics data, contributing to increase in the system's ability to dynamically generate actionable insights.
- Utilized **Chart.js** alongside **HTML**, **JavaScript**, and **CSS** to develop interactive dashboards and reports, crafting a compelling user interface.
- Achieved a **30%** improvement in data retrieval speeds by **optimizing** database queries amidst processing large volume of data from vehicle telematics.

Hitachi Energy | Management Trainee   Chennai, TN, IN | Oct 2021 – June 2022
- Contributed to the migration of legacy inventory management system from Java EE to **Spring Boot** framework.
- Designed and implemented **RESTful APIs** for seamless integration with external supply chain and logistics system.
- Worked on **microservices** to modularize the inventory management system, enabling scalable and flexible service deployments.
- **Mentored** and guided **2 trainees** through an immersive learning journey on SOLID design principles, fostering an understanding of good software architecture and coding practices.
- Actively participated in agile development cycles, collaborating closely with cross-functional teams to deliver high-quality software solution.

Education

Master of Applied Computer Science | Dalhousie University (GPA – 3.83/4.0)   Halifax, NS, Canada | Jan 2023 – Aug 2024
B.E in Computer Science & Engineering | Maharaja Sayajirao University of Baroda (GPA – 3.6/4.0)   Vadodara, GJ, India | Jul 2017 – Apr 2021

Skills

Programming Languages: Java, C++, JavaScript, Python, Kotlin, TypeScript, SQL
Database: MySQL, MongoDB, DynamoDB, Firestore, PostgreSQL
Framework & Libraries: Spring Boot, Hibernate, React, Node.js, Redux, Bootstrap, Material
Cloud & DevOps tools: AWS (Lambda, SNS, VPC, API Gateway, CloudFormation, Step Function), GCP (Kubernetes Engine, Cloud Run, Cloud Build), Git, Docker, Kubernetes, Terraform
Concepts & Practices: SOLID Principles, CI/CD, Test-Driven Development, System Designs and Patterns, Agile Methodology (SCRUM)

Projects

Tripify   Spring Boot, MySQL, GitLab CI/CD, Docker, React
- Developed a **Spring Boot**-based backend, integrating **JWT authentication** and **MySQL** for robust CRUD operations.
- Crafted dynamic **front-end** with **React**, developing an intuitive and responsive user interface that elevates the trip planning experience.
- **Streamlined** the **CI/CD pipeline** using **Docker** and **GitLab Runner**, **automating** the build, **test**, and deployment processes.
- **Led** a **team** of **five** developers, promoting Test-Driven Development **(TDD)**, **Agile** practices & **SOLID principles**.
- Utilized **JUnit** and **Mockito** for rigorous backend testing, achieving an **83%** code coverage metric.

Table Reservation App   Serverless (AWS, GCP), React, NodeJS, CI/CD, Docker
- **Developed** an interactive **front-end** using **React,** for effortless table reservations**.**
- **Implemented** secure user authentication mechanisms through **Google Firebase**, ensuring user data integrity and privacy.
- Designed a serverless **Node.js** backend on **AWS**, incorporating **AWS Lambda** for processing, **AWS Lex** for chatbot services, and **AWS SNS** for notifications.
- **Optimized** the deployment process by utilizing **Docker** for **containerization** and **GCP Cloud Run** for efficient **serverless deployment**.

Dal Portal   Spring Boot, MySQL, GitLab CI/CD, Docker, React
- **Programmed** an **Android app** for Dalhousie University, with **Kotlin** for backend and **Firestore** for database, enhancing academic administration and collaboration.
- **Implemented** a scalable **MVVM architecture**, with a user-friendly interface featuring role-specific dashboards, a job portal, task management, and communication tools.
- **Incorporated** versatile **UI components** and functionalities, such as **navigational drawers** for efficient app navigation, **charts** for visual data analysis, and a comprehensive **calendar scheduling** feature to organize and manage academic events and deadlines.

RDBMS   Core Java, Maven
- **Architected** and **developed** a **prototype DBMS**, facilitating core functionalities such as database and table creation, along with executing comprehensive CRUD operations, using **core Java**.
- **Enhanced query processing** and validation through the implementation of advanced **Regex** patterns, significantly improving operational efficiency in parsing and executing database queries.

Achievement & Activities

- **Led** AIESEC Vadodara's Marketing department, growing Instagram followers to 1.5k+ with dynamic campaigns, boosting brand impact.
- **Directed** People Management department at **AIESEC** Vadodara, enhancing recruitment and university outreach, expanding our team & mission visibility.
- **Volunteered** at Footprints, the annual National Level Technical Event, playing a key role in organizing events and efficiently managing over **100+** participants.