VETRIVEL DHARUMAN
SOFTWARE DEVELOPMENT ENGINEER

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Full stack developer with experience on building automation and data platforms using Angular, Java (Spring Boot), Selenium, Oracle and PostgreSQL. Skilled in REST API Integration, backend processing and performance-focused development. Committed to written clean and scalable code aligned with SOLID principles and delivered high-quality, testable solutions. Passionate about continuous learning and staying up-to-date with emerging technologies in the software development field.

Technical Skills:
- **Frontend:** AngularJS, HTML, CSS, JavaScript, TypeScript, BPMN.js
- **Backend:** Java (Spring Boot), Hibernate/JPA
- **Automation:** Selenium (Java), JavaScript
- **Testing & Development Practices:** JUnit, Test-Driven Development (TDD)
- **Version Control & CI/CD:** Git, Jenkins
- **API Development & Testing:** REST API, Postman
- **Databases:** SQL, PostgreSQL, Oracle SQL
- **ETL & Data Integration:** Informatica (Data Transformation, Masking, Comparison)
- **Tools:** GIT, GIT Bash, CLI, Postman, Pencil (wireframing)
- **Others:** Clean Code, SOLID Principles

Professional Experience:

Software Development Engineer (Java Full Stack Developer) | Kumaran Systems Pvt. Ltd.   **Feb 2023 - Present**
- Achieved a 60% reduction in execution time, resulting in a 30% reduction in overall testing cycle time by optimizing the existing code, caching strategy, optimized execution and loading time for API call responses with large data.
- Integrating RESTful APIs to streamline communication between services for the applications.
- Designing & optimizing PostgreSQL tables, functions for efficient data handling and application performances.
- Enhanced and optimizing, retrieving the data with large data and reduce the loading and processing time of records and increased efficiency in PostgreSQL functions.
- Independently researched and executed the migration of databases from MariaDB to PostgreSQL, ensuring data integrity and achieving significant performance improvements for the application.
- Created automation cases for testing the functionalities of the application using the application itself.
- Conducted R&D on a model-based module to streamline the creation of large-sized steps for defining scenarios, reducing user effort and time compared to traditional form-based methods.
- Implemented custom sorting functionality with Regex in java & sorting the values based on the user's request.
- Executed and act as a tester and created manual testcase and automation tests using the tool and write manual test for development purpose as well.
- Assisted team members in resolving technical challenges related to both the development and testing, fostering collaboration and improving efficiency.
- Actively involved in bug fixing, code reviews and unit testing with JUnit, maintaining code quality and reliability.
- Writing clean, maintainable and efficient code in alignment with clean code principles and standards.

- Conducted knowledge transfer (KT) sessions on new and existing functionalities.
- Collaborated with primary developers, testers, business analysts, and solution architects to define strategies, analyze feasibility, and ensure comprehensive delivery, leading to successful project delivery, improved collaboration, and faster identification of issues and bugs.
- Developed backend logic using Java (Spring Boot) and contributed to frontend development with ReactJS in an internal ETL tool. Played a key role in integrating complex data processing workflows and ensuring data consistency across systems, including POCs for informatica with large number of records.
- Assisted testers to reach their testing goal while they need support or stuck in testing phase in a new scenario.
- Authored a technical blog titled "Supercharge your Database: Introduction to PostgreSQL with advanced Techniques" for the organization's internal newsletter, sharing insight about PostgreSQL basics.

Internship Trainee | Kumaran Systems Pvt. Ltd   **June 2022 – Jan 2023**
Full stack developer | Angular, Java, SQL, HTML, CSS, JavaScript, jQuery

- Built a full featured Vehicle rental web application connecting owners and customers. Implemented modules for Admin, Owners and Customer roles with features like Authentication, secured document uploads, and role-based access using Java Spring Boot. Focusing on frontend validations, backend logic, authentication, authorization, form handling and dynamic data handling.

PROJECTS:

- **KTAC – Codeless Testing Automation Tool:** Internal web application enabling automation of test cases built with Angular, Java (Spring Boot), Selenium, JavaScript and PostgreSQL. Developed multiple modules supporting test execution, workflow modeling and Data Integration.

- **DQV – Enterprise ETL Tool:** An Internal ETL (Data Extraction, Transform, Load) platform designed for data validation, transformation, migration, masking, comparison and synthetic data generation.

- **Veh2Go – Vehicle Rental Management Application:** Built a full-featured vehicle rental platform connecting owners and customers. Implemented module for admin, owners and customers with features like authentication, vehicle listing, booking workflows, secure document uploads and role-based access. Focused on frontend validations, backend logics and dynamic data handling.

Certifications:

Completed 20+ online certifications — view them on my LinkedIn: Vetrivel Dharuman | LinkedIn

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Education:

University College of Engineering – Villupuram (Tamil Nadu, India)
B.E in Computer Science and Engineering   CGPA: 8.17 / 10   *2018 – 2022*