Priyadharshini R

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EDUCATION

Panimalar Institute of Technology, Chennai, Tamil Nadu   2015 - 2019
Electronics and Communication Engineering   CGPA 8.23

Work Experience

AlgoUniversity - Externship   Sep 2023
Online Judge | *Project Link:* Github

- Built an Online Judge platform using the **MERN** Stack as a self-initiated project to improve my skills in full-stack web development, database design, and system architecture.
- Online Judge platform allows users to **register/login/reset password**, manage problems, submit code solutions, and **receive automated evaluations**. Key features included user registration, problem repository management, code submission, evaluation, feedback, **submission history** and a **leader board** system.
- Implemented a secure back-end server for **user authentication using JWT**. Designed and implemented a **MongoDB database with structured schemas**.
- **Isolated Docker containers** for secure code execution by sand boxing the code compilation. Email service for password reset is configured.
- Built a **user-friendly interface** for registration, login, password reset, problem management, and code submission, **visualizing submissions** and **leaderboards**, along with an **automated code evaluation system**.
- Supports **Java, C, C++, Python** programming languages and the submissions are handled for **time limit exceeded**, **compilation** and **test case failure** errors and **submissions** processed by the compiler is tracked.
- Utilized testing frameworks such as Jest for frontend React components and Mocha/Chai for backend Node.js services. Conducted unit testing, integration testing, and end-to-end testing.

Tata Consultancy Services   Chennai, Tamil Nadu
System Engineer   June 2022 - Present

- Developed and manually tested code for existing functionalities of various **AWS services** (e.g., S3, SQS, Stepfunction, SES), ensuring compatibility and seamless integration. .
- Identified and resolved potential compatibility issues, reducing the integration-related errors.
- Actively participated in **code reviews**, providing valuable insights on code clarity and maintainability, contributing to a more robust and maintainable codebase.

HCL Tech   Chennai, Tamil Nadu
Software Engineer   Feb 2021 - June 2022

- Developed and maintained a comprehensive **automated testing suite** using **Selenium and Jenkins** for **UserLifecycleServ**(ULC) application, covering both personal and business **account creation** functionalities. Implemented detailed logging with correlation IDs, enabling efficient bug identification and diagnosis, resulting in a **30% reduction in critical bugs and a 20% increase in test execution speed.**
- Developed and managed a robust **automated testing suite** using **Selenium and Jenkins** for the **Bank Reference Service** (BRS) application, ensuring secure integration of **bank and credit card functionalities** within new accounts. This comprehensive suite employed advanced logging with correlation IDs, facilitating swift bug identification and resolution, resulting in a **30% reduction in critical bugs and a 20% boost in test execution speed, demonstrating the effectiveness of the implemented testing framework.**

SKILLS

- **Coursework:** Data Structures and Algorithms, Low level Design, OOPS.
- **Programming:** Java, Python
- **Development Tools:** HTML, CSS, Js, ReactJs, ExpressJS, MongoDB, NodeJS, Bootstrap, Jenkins, CI/CD, Selenium WebDriver, TestNG, JUnit, maven.
- **Tools:** IntelliJ, VS code, Git, Docker.