SRIDHAR SIVAKUMAR

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EXPERIENCE

JENKINS (Google summer of code) — Remote, IN
Contributor — May 2024–Sep 2024

- Developed a Plugin Modernizer Tool to automate the modernization of Jenkins plugins using OpenRewrite recipes, which greatly impacts modernizing 2000+ plugins.
- Enhanced plugin compatibility with the latest Jenkins LTS versions by applying automated code transformations.
- Implemented the tool's command-line interface (CLI), enabling seamless integration into CI/CD pipelines.
- Ensured robust testing with high coverage by writing comprehensive unit and integration tests, improving code reliability.
- Collaborated with the Jenkins community, adhering to open-source best practices and contributing to documentation and tutorials.

PROJECTS

Plugin Modernizer Tool — Automation Tool
[GitHub] [Project Page]

A CLI tool developed as part of the Google Summer of Code project to automate the modernization of Jenkins plugins.
- Capable of performing large-scale code refactoring across different repositories in an organization.
- Integrated with the GitHub API to automate workflows, including forking repositories, cloning, creating pull requests, and more.

Technologies used: Java, OpenRewrite, Maven Invoker, GitHub API, JGit, JUnit, Mockito

Code Temple — Online Judge
[GitHub] [Project Page]

A platform for solving programming problems with a built-in Online Judge system.
- Developed a robust system for evaluating real-time code submissions against test cases.
- Integrated user authentication and authorization using PassportJS, ensuring secure access to the platform.
- Containerized the platform using Docker and Docker Compose for streamlined deployment and scalability.

Technologies used: TypeScript, React, Node, MongoDB, Mongoose, PassportJS, Docker, Docker Compose

EDUCATION

PSR ENGINEERING COLLEGE, — Sivakasi, TN
Bachelor of Engineering, Computer Science — 2021-2025
GPA: 8.4

SKILLS

Programming Languages: C, C++, Java, TypeScript, Python, Bash
Technologies: Git, Docker, Node.js, AWS, Linux, Postgres, SQL, MongoDB, Postman, Maven, Gradle, Jenkins, Vagrant
Concepts: Object-Oriented Programming, Databases, Virtualization, Test Driven Development(TDD), Design Patterns, Continuous Integration/Continuous Deployment (CI/CD), Containerization, Dependency Management.

ADDITIONAL INFORMATION

- **Languages:** Fluent in Tamil (native), and English; Conversational Proficiency in Telugu
- **Open Source Contributions:** Contributed over 50+ merged pull requests across various open source projects and organizations
- **Leadership:** Founded an OSS club at our college, promoting open source among students unfamiliar with it