

SHALON JOVAN S

(+91) 8438685371 | shalonjovan2410112@ssn.edu.in | GitHub

LinkedIn | Portfolio | Chennai,India

Education

Sri Sivasubramaniya Nadar College of Engineering (CGPA: 7.725 / 10)

Chennai, India

Bachelor of Engineering in Computer Science & Engineering

2024 – 2028

Technical Skills

- **Languages:** Python, C/C++, Java, JavaScript, TypeScript, Dart, Shell Scripting
- **Frameworks:** Next.js, React.js, Node.js, MERN Stack, REST APIs, FastAPI
- **Databases:** MongoDB, Supabase, PostgreSQL, SQLite
- **Testing & Security:** Selenium, Cypress, Apache JMeter, Postman, OWASP ZAP, SonarQube, Burp Suite, WebDriverIO
- **Core CS:** Data Structures & Algorithms, Database Management System, Object-Oriented Programming, [Operating Systems](#), [Computer Networks](#)
- **DevOps & Tools:** Git, GitHub, Docker, Redis, Postman, Render, Vercel, CI/CD, Microservices, AWS, Azure Tools

Professional Experience

DreamPi

Chennai, India

Software Developer Intern | Onsite

Apr 2026 – June 2026

- Built the AEO search analytics engines for VeluraHQ, integrating multiple agents to get evaluations and the ranking for the users site and optimizing it.
- Architected ADCC, an automated media pipeline that isolates speech, transcribes dialogue , and processes Video frames and generating both the Audio description and the subtitles for the uploaded video.
- Engineered Vision.sync an audio fingerprinting and movie synchronization system which finds which movie is playing based on the sound and then syncs the audio description and subtitles to that timestamp.

Bytes Brush

Chennai, India

Web Developer Freelancer | Remote

Oct 2025 – Present

- Engineered the complete Web-socket real-time backend architecture for Drona (Dr.Sim), which is a medical simulation platform for teaching medical students.

Projects

Open_claude | TypeScript, Bun, React 19, Ink v5, Zod

- Developed an open-source fork of Anthropic's Claude Code CLI tool, successfully adapting the core system to substitute proprietary upstream backends with open-access LLMs served over custom OpenAI-compatible endpoints.
- Engineered an API translation adapter layer that formats message logs, parses server-sent event streams, translates tool schemas into function parameters, and sustains native multi-turn terminal history persistence via TUI configurations.

LMS_mcp | Python, FastMCP, Playwright, FastAPI, SQLite

- Architected a specialized Model Context Protocol (MCP) server containing 12 automated tools built to dynamically scrape course materials, complete structured assignments, and monitor workflows in Moodle learning platforms.
- Deployed headless Playwright background routines paired with a WAL-mode SQLite database to securely preserve student operational context and track state variables across multi-provider LLM integrations.

Test_mcp | Python, FastMCP, Playwright, httpx, Docker

- Architected a universal Model Context Protocol (MCP) testing server housing 48 automated tools for executing comprehensive quality assurance across API, database, security, performance, accessibility, and mutation testing domains.
- Deployed built-in SAST, secret, TLS, and load testing engines alongside Playwright-based browser automation and a WAL-mode SQLite observability layer, all containerized via Docker with CI/CD integration.

Hermes-Relay | Kotlin, Python, FastAPI, Android SDK, SQLite

- Developed a self-hosted SMS relay platform that enables applications to securely send and receive SMS messages through an Android app acting as a gateway, exposing REST APIs for seamless communication between the service and the mobile device.
- Engineered both the Android client and backend relay service with persistent message synchronization, authentication, and local storage support. Open-sourced the project, earning **16+ GitHub stars** and the **GitHub Starstruck** achievement badge.

Achievements & Hackathons

- **GDG CTF:** Secured first place in the GDG CTF conducted by the SSN GDG club.
- **Smart India Hackathon 2025:** Selected among Top 50 teams in internal qualification round.
- **Hack2TechSustainovate:** Earned Grand Finalist ranking (Top 25 teams chosen out of 700+ competitors).
- **SNUC Hacks '26:** Achieved Finalist positioning (Top 25 teams evaluated from a pool of 180+ teams).
- **Kernal' 25:** Secured 2nd Place in the 'Decode Me' competitive problem-solving and cyber security track.
- **Web Replica (WIE SSN):** Awarded 2nd Place for demonstrating precise interface replication and layout replication.
- **Prompt with Partners (AI Student Chapter):** Won 2nd Place in the AI engineering and prompt optimization event.

Leadership & Involvement

- **SSN IEEE PELS:** Webmaster – Administering primary domain configurations, web layouts, and public developer updates.
- **SSN IEEE Photonics Society & SSN ACM-W:** Technical Team Member – Assisted and conducted multiple events.
- **SSN Coding Club:** Core member in Full Stack Development, Cyber Security, and Game dev verticals hosted and volunteered for many events.