

A Sivasubramanian Manoj

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Summary

Final-year Computer Science and Engineering student who builds full-stack, AI-integrated systems end-to-end - from cloud-native backends on AWS to production deployment with CI/CD. Interested in building solutions that solve real-world problems.

Education

SSN College Of Engineering, BE Computer Science and Engineering

2023 – 2027

- **CGPA:** 8.21 / 10.0
- **Class XII:** Sri Jayendra Swamigal School, Tirunelveli - 578 / 600
- **NPTEL Certifications:** Cyber Security and Privacy, Affective Computing

Technical Skills

Languages: Python, C/C++ , Java, JavaScript, SQL, Bash

Frameworks & Libraries: React, Node.js, Express.js, Socket.io

Databases & Cloud: MySQL, MongoDB, Redis, AWS, Azure, Docker

Tools & Security: JWT, OAuth, Git, GitHub Actions (CI/CD), Postman, Linux, Render

Experience

Software Development Intern, CX365

June 2026

- Built serverless functions with **AWS Lambda** for input validation and batch processing; automated **S3** storage workflows including image compression via Lambda Layers.
- Configured **IAM** roles/policies for secure execution and designed NoSQL backends with **DynamoDB** - a CRUD system, an attendance tracker using composite keys, and a GSI-filtered order system.
- Processed speech with **Amazon Transcribe** (PII redaction, diarization, sentiment) and generated AI summaries with **Amazon Bedrock**; used **CloudWatch Logs** and **CloudShell** for monitoring and debugging - spanning **8 AWS services** end-to-end in a single-month internship.

Projects

CampusMarketPlace · [\[Live Demo\]](#) · [\[GitHub\]](#)

Node.js, Express, MySQL, Socket.io,
Redis, Docker

- Architected a secure, real-time marketplace with **Socket.io** and a **Redis Pub/Sub** adapter to scale chat horizontally across multiple server instances.
- Secured the platform with **JWT** (HttpOnly cookies), Bcrypt, Helmet.js, and rate-limited endpoints; built an admin dashboard with role-based access control.
- Containerized the full stack with **Docker Compose** (MySQL, Redis, Node, Nginx) and deployed live on Render.

DSA Club · *In Progress* · [\[GitHub\]](#)

React, Node.js, MongoDB, Gemini
API, Azure Speech SDK

- Built an AI-powered Socratic hint engine (**Google Gemini API**) with a guard classifier that blocks off-topic or pasted-solution attempts and calibrates hint specificity.
- Developed a voice-driven mock interview mode using **Azure Speech SDK** for live transcription, sequential AI follow-ups, and AI-scored feedback, with JWT + Google OAuth auth and MongoDB-backed progress tracking.

Personal Finance Tracker System

Java, OOP, MySQL, JDBC

- Co-developed a terminal-based (TUI) application applying strict **OOP** principles in Java, with secure JDBC-based MySQL connectivity, to track cash flows and real-time budget/savings targets.

Leadership & Achievements

Founder & Content Creator · Dead Coders Society

Instagram Tech Community

- Grew an organic engineering community to **15,000+ followers in two months**, publishing coding guides and challenges reaching **3M+ total views**.
- **Open Source:** merged PRs in transmute-app, nanocoder, stdlib-js, and dalfox, incl. a fix spanning three layers.