

Sri Karthickeyan Ganapathy

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Professional Summary

Software Engineering undergraduate specializing in **backend development** with strong experience in **Spring Boot, microservices-based architectures, and RESTful APIs**. Proven ability to build scalable systems, integrate third-party services, and develop blockchain-backed applications. Strong foundation in **Java, Python, DBMS, and Data Structures**, with emphasis on clean, production-ready code.

Technical Skills

Languages: Java, Python, JavaScript, SQL, Solidity, C++
Backend: Spring Boot, Node.js, Express.js, RESTful APIs, Microservices
Frontend: React, HTML5, CSS3, JavaScript, DOM Manipulation
Databases: MySQL, MongoDB, Database Design and Optimization
Blockchain: Solidity, Web3j, Smart Contracts, Ethereum, Polygon
Core CS: Data Structures and Algorithms, OOP, DBMS, OS, Computer Networks
Tools: Git, Postman, JWT Authentication, AWS (Cloud Practitioner), Debugging

Projects

Smart Agriculture Monitoring System | Spring Boot, React, MySQL, Python 2025

- Architected a **microservices-based platform** separating core business logic from data processing services.
- Designed and implemented **RESTful APIs** for structured agricultural data ingestion and inter-service communication.
- Integrated **Python-based processing services** for crop health assessment and statistical analysis.
- Optimized **MySQL** schema design for efficient storage of user and field data.

Digital Gold / AUG Token Platform | Spring Boot, Solidity, Web3j 2025

- Developed a Spring Boot backend integrated with the **Polygon Amoy** testnet using **Web3j**.
- Implemented **secure token minting logic** with cryptographic hashing for purchase validation.
- Engineered a **FIFO-based redemption algorithm** for accurate digital asset balance tracking.
- Integrated **Razorpay** to enable seamless fiat-to-token transactions.

Decentralized Predictive Maintenance | Node.js, Express, MongoDB 2024

- Built a robust backend using **Node.js and Express** for authentication and equipment log management.
- Integrated **Ethereum smart contracts** to ensure immutable storage of maintenance records.
- Connected external **Python analytics services** to provide predictive insights to the dashboard.

Room Management System | Spring Boot, React, MySQL 2025

- Built **RESTful backend services** using layered architecture (Controller, Service, Repository).
- Implemented **Role-Based Access Control (RBAC)** for secure user and admin operations.
- Integrated **Cloudinary** for efficient image storage and retrieval, optimizing database performance.

Internship

Web Application Development Intern — Arjun Vision Tech Solutions Jun 2024

- Developed a responsive expense tracking application using **HTML, CSS, and Vanilla JavaScript**.
- Implemented **client-side state management** using LocalStorage for session persistence.
- Integrated **Chart.js** for dynamic expense and budget visualizations.

Achievements

- **Winner – Ashok Leyland Grand Challenge (50,000):** Delivered an EV maintenance prototype under strict deadlines.
- Solved **300+ coding problems** across LeetCode, GeeksforGeeks, and HackerRank.
- Earned a **5-star rating in Python** on HackerRank.

Certifications

- **AWS Certified Cloud Practitioner (CLF-C02)** — Amazon Web Services

Education

B.Tech – Artificial Intelligence and Machine Learning, Saveetha Engineering College, Chennai 2022–2026 | CGPA: 8.35 / 10