

# 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

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

## Projects

Smart Agriculture Monitoring System   Spring Boot, React, MySQL, Python	2025
<ul style="list-style-type: none"><li>Architected a <b>microservices-based platform</b> separating core business logic from data processing services.</li><li>Designed and implemented <b>RESTful APIs</b> for structured agricultural data ingestion and inter-service communication.</li><li>Integrated <b>Python-based processing services</b> for crop health assessment and statistical analysis.</li><li>Optimized <b>MySQL</b> schema design for efficient storage of user and field data.</li></ul>	
Digital Gold / AUG Token Platform   Spring Boot, Solidity, Web3j	2025
<ul style="list-style-type: none"><li>Developed a Spring Boot backend integrated with the <b>Polygon Amoy</b> testnet using <b>Web3j</b>.</li><li>Implemented <b>secure token minting logic</b> with cryptographic hashing for purchase validation.</li><li>Engineered a <b>FIFO-based redemption algorithm</b> for accurate digital asset balance tracking.</li><li>Integrated <b>Razorpay</b> to enable seamless fiat-to-token transactions.</li></ul>	
Decentralized Predictive Maintenance   Node.js, Express, MongoDB	2024
<ul style="list-style-type: none"><li>Built a robust backend using <b>Node.js</b> and <b>Express</b> for authentication and equipment log management.</li><li>Integrated <b>Ethereum smart contracts</b> to ensure immutable storage of maintenance records.</li><li>Connected external <b>Python analytics services</b> to provide predictive insights to the dashboard.</li></ul>	
Room Management System   Spring Boot, React, MySQL	2025
<ul style="list-style-type: none"><li>Built <b>RESTful backend services</b> using layered architecture (Controller, Service, Repository).</li><li>Implemented <b>Role-Based Access Control (RBAC)</b> for secure user and admin operations.</li><li>Integrated <b>Cloudinary</b> for efficient image storage and retrieval, optimizing database performance.</li></ul>	

## Internship

Web Application Development Intern — Arjun Vision Tech Solutions	Jun 2024
<ul style="list-style-type: none"><li>Developed a responsive expense tracking application using <b>HTML, CSS, and Vanilla JavaScript</b>.</li><li>Implemented <b>client-side state management</b> using LocalStorage for session persistence.</li><li>Integrated <b>Chart.js</b> for dynamic expense and budget visualizations.</li></ul>	

## Achievements

<ul style="list-style-type: none"><li>Winner – <b>Ashok Leyland Grand Challenge (50,000)</b>: Delivered an EV maintenance prototype under strict deadlines.</li><li>Solved <b>300+</b> coding problems across LeetCode, GeeksforGeeks, and HackerRank.</li><li>Earned a <b>5-star rating in Python</b> on HackerRank.</li></ul>
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## Certifications

<ul style="list-style-type: none"><li>AWS Certified Cloud Practitioner (CLF-C02) — Amazon Web Services</li></ul>
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## Education

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