Maruthu B

Portfolio — GitHub — LinkedIn

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PROFESSIONAL SUMMARY

Cybersecurity-focused **Java Backend Developer and Ethical Hacking enthusiast** skilled in secure system design, penetration testing, and scalable backend development. Experienced in Spring Boot APIs, authentication systems, malware detection, and vulnerability assessment. Passionate about building security-first applications and researching threats in social engineering, blockchain, and network security.

EDUCATION

Sri Venkateswara College of Engineering, Sriperumbudur — 2023 – 2027
B.Tech – Information Technology — CGPA: 7.7

Ariyalur District Government Model Higher Secondary School — 2022 – 2023
Higher Secondary Certificate (HSC) — 88%

EXPERIENCE

Full Stack Java Developer Intern – The Skybrisk — Dec 2025 – Feb 2026
- Developed secure REST APIs using Spring Boot, MySQL, and JWT authentication.
- Implemented RBAC, encryption, hashing, and secure coding practices.
- Performed vulnerability assessments, input validation, and backend hardening.
- Optimized database queries and deployed production-ready applications.

PROJECTS

- **Java Malware Detector**: SHA-256/MD5 hashing, entropy analysis, suspicious string detection, VirusTotal integration, automated threat scoring.
- **Blockchain-Based Secure E-Voting System**: Implemented secure e-voting using RFID and biometric MFA with SHA-256 hashing and private blockchain to prevent impersonation, tampering, and double voting.
- **Bookstore Management System (Spring Boot)**: JWT authentication, secure REST APIs, CRUD operations, pagination, Docker deployment.
- **EMI Management System**: Java Swing + JDBC application for loan and payment tracking with MySQL.

PUBLICATIONS

- **Social Engineering Attacks on Social Media (2000–2030)**: Proposed SEAR metric, analyzed attack growth trends, designed multi-layer prevention frameworks, and AI-driven threat projections.

TECHNICAL SKILLS

- **Languages:** Java, SQL, Python, JavaScript, C
- **Backend:** Spring Boot, REST APIs, JDBC, Hibernate, MVC, Microservices Basics
- **Cybersecurity:** Vulnerability Assessment, Penetration Testing Basics, Nmap, OSINT, Secure Coding, JWT, Password Hashing
- **Blockchain:** Blockchain Fundamentals, Cryptographic Hashing, Smart Contracts Basics, Web3 Concepts, Decentralized Security Principles
- **Tools:** Git, GitHub, Docker, Postman, Linux, IntelliJ, VS Code
- **Core:** Data Structures, OOP, DBMS, Operating Systems, Computer Networks

CERTIFICATIONS

- Blockchain Basics – Coursera (University at Buffalo)
- Introduction to Networking – Coursera (NVIDIA)
- Core Java Programming – Infosys Springboard
- Cybersecurity Essentials – Wipro & Cisco Networking Academy

ACHIEVEMENTS

- Finalist – MAKEATHON 6.0 (24-hour national hackathon) – Built cybersecurity awareness game
- Finalist – Blind Web Forge, AIT Club
- Participant – Phish Vortex 1.0 Cyber Challenge