

SHRAVAN KRISHNAN G

Neyveli, Tamil Nadu

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Education

Amrita Vishwa Vidyapeetham

B.Tech in Computer Science and Engineering

- Specialization: Cybersecurity

Coimbatore, Tamil Nadu

Expected Graduation, May 2026

Experience

Tech Mahindra

May 2025 – July 2025

Software Developer Intern

Chennai, Tamil Nadu

- Developed a full-stack tariff quoting web application using React, Express.js, Clerk authentication, Stripe Sandbox for test payments, and Docker for containerization, with monitoring via Prometheus.
- Explored real-world DevOps practices through hands-on containerization and observability implementation, and attended team sessions that introduced deployment workflows and CI/CD concepts.

Hackup Technology Pvt Ltd

Jun 2024 – Sept 2024

Security Engineer Intern

Coimbatore, Tamil Nadu

- Utilized network monitoring and vulnerability scanning tools (e.g., Wireshark, Nmap) to identify and analyze potential security weaknesses in network traffic and systems.
- Applied foundational ethical hacking techniques and penetration testing methodologies, guided by principles from OWASP, to discover and report system vulnerabilities.

Projects

Secure P2P File Share | Electron, WebRTC, Node.js

July 2025 – Nov 2025

- Architected a decentralized, privacy-first file sharing desktop app using Electron and WebRTC, eliminating third-party data storage via a custom Node.js signaling server.
- Engineered a high-performance streaming protocol using the File System Access API to write data directly to disk, bypassing browser RAM limits for multi-GB transfers.
- Developed advanced features including resumable uploads, multi-room management, and deep linking, wrapped in a modern, cross-platform interface.

Real-Time Collaborative Canvas | Node.js, Socket.io, HTML5 Canvas

Nov 2025

- Engineered a real-time, room-based collaborative drawing platform using Node.js and Socket.io, achieving sub-100ms latency for simultaneous multi-user interactions.
- Implemented a hybrid event-sourcing architecture for global Undo/Redo, batching high-frequency mouse events into strokes to ensure 100% data consistency across clients.
- Optimized rendering performance with a multi-layered canvas system and requestAnimationFrame interpolation, enabling smooth remote cursor tracking and artifact-free drawing.

Shamir's Secret Sharing Scheme Implementation | Python, JavaScript, HTML, CSS

Dec 2023 – Feb 2024

- Built a cryptographic system to split and reconstruct sensitive data using polynomial interpolation.
- Simulated secret distribution and threshold-based recovery for secure multi-party computations.

Technical Skills

Programming/Scripting: Python, Java, Bash (Basic), JavaScript, HTML/CSS

Security Tools: Wireshark, Nmap, Burp Suite, Metasploit

Frameworks & Methodologies: Spring Boot, Node.js, express.js, React, STRIDE Threat Modeling, Vulnerability Scanning

Networking Concepts: TCP/IP, Firewalls, Routers, VPNs

Certifications

Spring Boot Framework - Udemy

Nov 2025

Palo Alto Networks Security Operations Fundamentals

October 2025

Palo Alto Networks Cloud Security Fundamentals

August 2025

Cisco Networking Basics

July 2024

Extracurricular

Captain-College Tennis Team

Dec 2022 – Present

Led a team of 15

- Served as Tennis Team Captain, leading training sessions, coordinating tournament participation, and fostering team cohesion. Demonstrated leadership, strategic thinking, and resilience under pressure.