

# SHRAVAN KRISHNAN G

Neyveli, Tamil Nadu

☎ 8778510324

✉ [shravankrishnan77@gmail.com](mailto:shravankrishnan77@gmail.com)

<https://github.com/shravankrishnan007>

## Education

**Amrita Vishwa Vidyapeetham**

**Coimbatore, Tamil Nadu**

*B.Tech in Computer Science and Engineering*

*Expected Graduation, May 2026*

- **Specialization:** Cybersecurity

## 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.