

# Kannan K

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## EDUCATION

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### Sri Sairam Engineering College

Chennai, India

*B.E. Computer Science with Cybersecurity*

2024 – 2028

- Core Team Member, AWS Student Builder Group — organizing cloud workshops and builder events for 100+ peers.
- Chapter Lead, OWASP Student Chapter — workshops on OWASP Top 10, secure coding, and CTF challenges for 50+ students.

## EXPERIENCE

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### Security Engineer Intern

Oct. 2025 – Nov. 2025

*Sri Sairam Techno Incubator Foundation*

Chennai, India

- Conducted white-box penetration testing across 3 live services; documented critical vulnerabilities — all findings were remediated before production release.
- Designed and deployed a PKI-integrated VPN server, enforcing encrypted communication across all internal services and securing the engineering team's development environment.
- Established secure coding standards and GitLab-based version control workflows adopted across the team.
- **Promoted from Web Development Intern to Security Engineer within 1 month** — the only intern to receive this recognition.

### Web Development Intern

Aug. 2025 – Sep. 2025

*Sri Sairam Techno Incubator Foundation*

Chennai, India

- Built a production-grade microservices platform for incubation management using FastAPI, PostgreSQL, Next.js, Docker, Kubernetes, and Argo CD — deployed live on AWS.
- Contributed to CI/CD pipelines on GitLab enabling zero-downtime releases; proactively identified security gaps across the system that directly led to promotion.

## PROJECTS

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### Cyber Gym | *Docker · FastAPI · Next.js · Open Source*

- Built an AI-assisted cybersecurity lab platform that provisions isolated Docker sandboxes on demand with a single prompt — making it easy for learners at any skill level to practice in safe, disposable environments.
- Designed full-stack architecture solo: containerised environments (Docker), async REST backend (FastAPI), modern frontend (Next.js). Open-sourced on GitHub.

### 3XPLOIT3RS Community Platform | *Full-Stack · RBAC · [exploiters.0ckannan.ninja](#)*

- Built and actively maintain a private cybersecurity community exclusively for college students, featuring senior-authored write-ups, custom hands-on labs, and role-based access controls.
- Handles all platform operations end-to-end: content curation, access management, and infrastructure.

## HIGHLIGHTS

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### Awards & Recognition

- **3rd Place — AWS Hackathon:** Built and presented a cloud-native solution, competing against senior-year teams.
- **Anthropic VDP Disclosure:** Identified and reported a security vulnerability to Anthropic's Vulnerability Disclosure Program; acknowledged by the security team. PoC published on GitHub.
- **Independent Bug Hunter:** Discovered high-severity student data leakage vulnerabilities across two educational institutions; responsibly disclosed and resolved by respective teams.

## TECHNICAL SKILLS

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**Languages:** Python · C · C++ · Bash

**Backend & Databases:** FastAPI · PostgreSQL · REST APIs

**Frontend:** Next.js · React

**DevOps & Cloud:** Docker · Kubernetes · Argo CD · GitLab CI/CD · AWS · GCP · Azure · Linux

**Security:** Penetration Testing · White-box Testing · OWASP Top 10 · PKI · VPN · Bug Bounty

**Exploring:** Agentic AI systems · LLM security · AI browser attack surfaces