

Kannan K

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EDUCATION

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

Security Engineer Intern

Oct. 2025 – Nov. 2025

Sri Sairam Techno Incubator Foundation

Chennai, India

- Found and helped fix 5 vulnerabilities before production release by running white-box penetration tests across 3 live services and tracing execution paths and data flows.
- Removed plaintext traffic across internal services by designing and deploying a PKI-integrated VPN server with certificate-based mutual authentication.
- Shared secure coding practices with 20+ interns by introducing coding standards and GitLab version control workflows.

Web Development Intern

Aug. 2025 – Sep. 2025

Sri Sairam Techno Incubator Foundation

Chennai, India

- Built a microservices platform using async FastAPI, asyncpg, PostgreSQL, Next.js, Docker, Kubernetes, and Argo CD, deployed live on AWS, handling 1000+ requests/sec in local load tests with k6 thanks to tuned connection pooling for non-blocking concurrent I/O.
- Cut deployment time by 70% with zero-downtime releases by setting up GitOps CI/CD workflows on GitLab, while also flagging security gaps along the way.

PROJECTS

Auditly | *Agentic AI · RabbitMQ · FastAPI · PostgreSQL · MongoDB · Next.js · Cloudflare D1* | [GitHub](#)

- Cut manual regulation review effort by 90% by continuously scraping RBI, SEBI, and FEMA sources and turning raw regulation PDFs into structured, department-tagged action items that teams can just log in and view.
- Processed 10+ regulatory events through the pipeline without losing one (volume varies since regulators don't publish on a fixed schedule) by implementing the Transactional Outbox Pattern (Cloudflare D1 + RabbitMQ) for guaranteed delivery between the scraper and AI processing layer.
- Brought pipeline latency down to 500ms per regulation by building an async FastAPI backend with asyncpg and tuned connection pooling, and orchestrating a 3-agent sequential pipeline (RegParser → MAPs Generator → ComplianceValidator).
- Split storage so PostgreSQL holds structured MAP records with indexed JSONB fields for fast filtering, while MongoDB stores the raw, schema-less agent output that's written once and rarely queried, avoiding the overhead of forcing unstructured logs into a relational schema.

3XPL0IT3RS Community Platform | *Full-Stack · RBAC · exploiters.0xkannan.ninja*

- Grew a private cybersecurity community to 200+ active members by building and maintaining an RBAC-gated platform of write-ups and hands-on labs, owning the infrastructure, content pipeline, and access management end to end.

HIGHLIGHTS

Awards & Recognition

- **3rd Place, AWS Hackathon:** Built and presented a cloud-native solution competing against senior-year teams; recognized for system design and deployment quality.
- **Anthropic VDP Disclosure:** Identified and responsibly disclosed 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 fully remediated by respective security teams.

TECHNICAL SKILLS

Languages: Python · Bash · JavaScript

Backend & Databases: FastAPI (async) · asyncpg · PostgreSQL · MongoDB · REST APIs · RabbitMQ

Frontend: Next.js · React

Concurrency & Systems: Async I/O · Concurrent Request Handling · Connection Pool Tuning · Event-Driven Architecture · Distributed Systems · Microservices

Architecture Patterns: Transactional Outbox · Polyglot Persistence · Sequential Agent Orchestration · GitOps

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

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

Exploring: Agentic AI Systems · LLM Orchestration · AI Pipeline Design · LLM Security