Kavin Nandha M K

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SUMMARY

CSE (Cyber Security) student obsessed with technology and how everything works, from code to cables. I managed my college's servers, firewalls, and network, including a k3s cluster serving 2,500+ users, and built production backends as an SDE intern. I dive into the tools others hesitate to touch, learn by breaking and fixing, and love collaborating; learning keeps me focused and steady. Top 5 finalist, Samsung Solve for Tomorrow 2026 (AI Living for India).

EDUCATION

B.E. Computer Science and Engineering (Cyber Security) | CGPA: **8.67**/10 **2023 – 2027**
Sri Shakthi Institute of Engineering and Technology, Coimbatore
Higher Secondary Certificate (HSC), VVM Matric Hr. Sec. School, Coimbatore | 83.4% 2023

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL
Backend: Node.js, Express.js, FastAPI, REST API design, scaling
Databases: MongoDB (schema design, query optimization), MySQL, Redis
Frontend: React, Next.js, Tailwind CSS
DevOps & Tools: Docker, Kubernetes (k3s), GitHub Actions CI/CD, Nginx, AWS, Linux, Git, Prometheus, Grafana
Core CS: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

EXPERIENCE

SDE Intern | TeamMistake Technologies **Oct 2025 – Mar 2026**

- Owned the Admin Dashboard module's backend end to end, from data modeling and API design to deployment
- Designed MongoDB schemas and rewrote queries to remove redundant database calls on high-traffic admin endpoints
- Built JWT authentication and role-based access control (RBAC) from scratch for user and admin workflows
- Containerized services with Docker, shipped releases through GitHub Actions CI/CD, and managed DNS and SSL/TLS

PROJECTS

MicroLearning – WhatsApp Shop-Floor Training Platform | *Python, FastAPI, MongoDB, Next.js, WhatsApp Cloud API, Docker*

- Built the FastAPI backend that turns factory SOPs into short WhatsApp video lessons in 15 Indian languages
- Integrated WhatsApp Cloud API webhooks with LLM lesson writing, AI voice-note grading, and FSRS reviews
- Made it multi-tenant: every query is scoped to the caller's company and plant, with RBAC for 3 staff roles
- Deployed with Docker Compose and GitHub Actions CI/CD (214 backend tests) behind a Cloudflare Tunnel
- Top 5 finalist in AI Living for India at Samsung Solve for Tomorrow 2026 with this project

HR Connect – Placement & Recruitment Platform | *Node.js, Express.js, MongoDB, Redis, Docker, Nginx*

- Built the backend for a placement platform: job postings, applications, and candidate management for 3 roles
- Designed REST APIs and MongoDB models for postings, applications, and profiles, secured with JWT/RBAC
- Added a Redis cache with invalidation on write to cut repeated database reads on frequently used endpoints
- Split the backend into modular services, containerized with Docker behind an Nginx reverse proxy

Sentinel AI – Cyberbullying Detection Platform (Backend) | *Node.js, Express.js, MongoDB, ML integration*

- Designed REST APIs and a pipeline that routes posts to an ML classifier, then flags and escalates harmful content
- Added JWT/RBAC and audit logging, with MongoDB schemas for incidents, user reports, and moderation queues
- Won SRCAS 2.0 Hackathon (350+ participants); co-authored the research paper published in JRANNS (Apr 2026)

ACHIEVEMENTS & CERTIFICATIONS

- **Samsung Solve for Tomorrow 2026:** Top 5 finalist in AI Living for India
- **MobilityX 2.0 Hackathon (2025):** Runner-up and Software Track Winner among 250+ participants
- **Finalist:** MAHE Mobility Challenge 2026, AI Track (MIT Bengaluru)
- **Tech Events:** Managed the entire tech side of college tech events, including handling payment gateways
- **Publication:** Co-author, *Sentinel AI: Cyber Bully Detection and Prevention*, JRANNS, Vol. 2, No. 2, Apr 2026
- **Certifications & Training:** Intel Unnati Industrial Training (2025) | AWS Cloud Practitioner Essentials, AWS Skill Builder (2026) | Claude Code in Action, Anthropic (2026) | Aspire Leaders Program (2026) | View certificates