

# NAKUL KOKATE

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## PROFESSIONAL SUMMARY

Computer Science & IT (Cyber Security) undergraduate graduating in 2027, **CGPA 9.0/10**, with internship, freelance and volunteer experience building **enterprise applications, REST APIs and workflow automation**. Develop full-stack systems with **Python, TypeScript, React/Next.js and SQL/PostgreSQL**; implement access controls, data-integrity checks and deployment documentation. Apply **Claude Code and AI-assisted development** to engineering workflows, with projects in ransomware detection and AI-assisted investigation.

## TECHNICAL SKILLS

**Languages:** Python, C#, TypeScript, JavaScript, SQL, Bash, PowerShell  
**Web & APIs:** React, Next.js, FastAPI, .NET 8, Node.js, REST APIs, JSON, HTML5, CSS3, OAuth 2.0/OIDC, JWT  
**Databases:** PostgreSQL, MS SQL Server, SQLite, schema design, indexing, database functions, Row-Level Security (RLS)  
**Cloud & DevOps:** AWS (IAM, S3, CloudTrail), Azure Entra ID, Docker, Docker Compose, Git, GitHub, CI/CD, Linux  
**Infrastructure & Security:** TCP/IP, DNS, TLS, firewalls, Windows internals, ETW, WMI, endpoint telemetry, monitoring, security fundamentals  
**Engineering & AI Tools:** API integration, automation, debugging, testing, technical documentation, Claude, Claude Code, prompt engineering, AI-assisted development

## WORK EXPERIENCE

**Technology Intern — Software Development** Jun 2026 – Oct 2026  
*Syrma SGS Technology Ltd. — Electronics Manufacturing MNC India*

- Built and deployed an enterprise Purchase Requisition workflow for **20+ users** using **Next.js, TypeScript, REST API routes and MS SQL Server**, implementing role-based approval routing, audit history and database-backed business logic.
- Integrated **Microsoft Entra ID SSO** using **OIDC/JWT** and implemented **CSRF/origin validation, CSP and HSTS** for application security; documented production requirements covering **DNS, TLS and firewall** configuration.
- Presented the completed system to the **IT President and CTO** and received a **48/50 mentor evaluation**.

**Full-Stack Software Developer (Freelance) — Arkoun Farms** Feb 2025 – Present  
*Remote Naks-bro/Arkoun-SYSTEM*

- Built the **Arkoun Operations Portal** with **Next.js, TypeScript and PostgreSQL/Supabase** for orders, subscriptions, inventory, dispatch and invoicing; documented build covered **101 app/API routes and 9 roles**.
- Implemented **Row-Level Security, server-side authorization, transactional inventory updates and idempotent payment recording**; debugged policy-recursion and database-integrity issues.
- Automated **WooCommerce order processing, vendor purchase orders and subscription scheduling** with Google Apps Script; documented architecture and operational handoffs.

**Technical Lead — Platform & Automation (Volunteer)** Jul 2025 – Present  
*YGPT — Youth NGO, Maitribodh Parivar Mumbai, India*

- Built the **YGPT Event Management System** using **Next.js, TypeScript and PostgreSQL/Supabase**, with **8 documented roles and 8 main lifecycle states** covering event approvals, budgets, reporting and access control.
- Integrated **Google Drive folder automation and email notifications** through authenticated Apps Script webhooks and a Resend fallback; deployed on **Vercel** and maintained stakeholder workflows.
- Managed nationwide operations data and access; resolved credential exposure through **key rotation and application hardening**, and completed a database-region migration with **zero data loss**.

**Cybersecurity Research Intern** Jun 2025 – Jul 2025  
*Konecranes — Global Industrial MNC Pune, India*

- Investigated enterprise endpoint security using **Cortex XDR and Qualys**; identified a critical endpoint privilege-escalation path and documented reproduction, impact and remediation for **2 global teams**.

## PROJECTS

**RDRS — Ransomware Detection & Response Engine** | C#/.NET 8, ETW, WMI, PowerShell | Naks-bro/RDRS---Ransomware-Detection 2025 – 26

- Built a Windows service fusing **7 live telemetry signals** across file activity, process behaviour, crypto API usage and network activity into a per-process **0–100 risk score**.
- Combined decoy files and entropy analysis with **automated process suspension, process-tree termination, execution restriction and scan triggering**; mapped detections to **MITRE ATT&CK T1486, T1490 and T1071**.

**Crime Branch OS — Investigation Platform (SIH 2026)** | Python, FastAPI, PostgreSQL, NetworkX, Next.js, Docker | Naks-bro/crime-branch-os 2025 – 26

- Built an investigation prototype with **FastAPI REST APIs, PostgreSQL and Next.js** for ingestion, **9+ entity types** and cross-case search; used **NetworkX** for graph analysis and **Docker Compose** for local development.
- Integrated optional **Claude CLI and Gemini** analysis grounded in loaded case records, with human review of extracted claims; maintained **API, database and architecture documentation**.

**CloudPosture — AWS Configuration Scanner** | Python, Boto3, AWS IAM, S3, EC2, CloudTrail, Streamlit 2026

- Built a Python scanner covering **4 AWS services — IAM, S3, EC2 and CloudTrail** — to check security configurations and produce structured findings with **CSV reporting and a Streamlit dashboard**.

## EDUCATION

**Symbiosis Skills & Professional University (SSPU)** 2024 – 2027  
*B.Tech — Computer Science & IT (Cyber Security), CGPA: 9.0/10 Expected Graduation: 2027*

- Relevant Coursework:** Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, Web Technologies, Cloud & IoT

**Pimpri Chinchwad Polytechnic College** 2021 – 2024  
*Diploma — Computer Engineering, 84.63%*

## ACHIEVEMENTS

**DY Patil CTF 2024:** Ranked **5th of 700+ participants** (Top 0.7%)  
**Bharat Innovation Challenge 2025–26:** Top 50 nationally  
**Smart India Hackathon 2026:** Selected in college internal round  
**Responsible Disclosure:** 3 security disclosures acknowledged by enterprise and academic organizations