Nakul Kokate

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Professional Summary

Computer Science & IT undergraduate (CGPA 9.0/10, graduating July 2027) building **Python and TypeScript applications, REST APIs, SQL-backed workflows and security automation**. Delivered role-based business systems across manufacturing, freelance and NGO settings; developed a tested AWS configuration scanner and Windows endpoint detection project. Interested in application engineering, cloud operations and data-driven security systems.

Education

Symbiosis Skills & Professional University (SSPU) — Expected Jul 2027
B.Tech, Computer Science & IT (Cyber Security) · CGPA 9.0/10 — *Pune, India*

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

Experience

Technology Intern, Software Development — Syrma SGS Technology Ltd. — Jun–Oct 2026

- Built a **Next.js/TypeScript and MS SQL Server purchase-requisition application** supporting an SAP S/4HANA procurement process, scoped for 20+ users; implemented REST API routes, role-based approvals, business rules and audit history.
- Worked on Microsoft Entra ID/OIDC sign-in requirements, troubleshot deployment issues and documented DNS, TLS and firewall needs; presented the system to senior IT leadership.

Full-Stack Developer (Freelance) — Arkoun Farms — Feb 2025–Present

- Built a **nine-role operations platform** with Next.js, TypeScript and PostgreSQL/Supabase for orders, inventory, dispatch and billing; enforced Row-Level Security and transaction-safe inventory and idempotent payment workflows.
- Automated order-to-vendor and delivery planning with Google Apps Script and an API-based road-duration matrix; used Clarke–Wright savings and 2-opt refinement to produce dispatch plans and reports.

Technical Lead, Platform & Automation (Volunteer) — YGPT — Jul 2025–Present

- Built an eight-role Next.js/Supabase event platform covering approvals, budgets and reports; applied PostgreSQL RLS and automated Drive folders and email notifications with Google Apps Script.

Cybersecurity Research Intern — Konecranes — Jun–Jul 2025

- Assessed enterprise endpoint controls with Cortex XDR and Qualys; documented a privilege-escalation issue, reproduction context and remediation for IT/security teams.

Selected Engineering Projects

CloudPosture — AWS Configuration Scanner | *Python, Boto3, AWS, Streamlit, pytest* | GitHub

- Built a read-only scanner with **26 CIS-aligned checks** across IAM, S3, EC2/EBS and CloudTrail; exports structured findings to JSON/CSV and includes 74 moto-based tests documented in the repository.

RDRS — Windows Detection & Response | *C#/.NET 8, ETW, WMI, PowerShell* | GitHub

- Combined seven endpoint telemetry layers into a per-process ransomware risk score and configurable containment; wrote PowerShell scenarios for normal and suspicious file activity.

Crime Branch OS — Investigation Prototype | *Python, FastAPI, PostgreSQL, NetworkX, Next.js*

- Contributed to a case/entity workspace with REST services, cross-case identifier search, graph paths and reviewable evidence links; prototype only, not a deployed police system.

AQI Tower Controller Validation | *C++, Arduino Opta, host-side tests* | GitHub

- Compiled firmware for the Opta target and ran 1,041 documented host assertions covering control and fault scenarios; physical hardware testing remains open.

Technical Skills

Languages & frameworks: Python, TypeScript, JavaScript, C#/.NET, SQL, C++ controller prototype; Next.js, React, FastAPI, REST APIs
Data & cloud: PostgreSQL/Supabase, MS SQL Server, SQLite, AWS IAM/S3/EC2/CloudTrail, Boto3, Google Apps Script
Engineering & security: Git, Docker, Linux, PowerShell, pytest/moto, RBAC/RLS, OIDC, endpoint telemetry, Cortex XDR, Qualys

Recognition

DY Patil CTF 2024: 5th of 700+ participants · **Bharat Innovation Challenge 2025–26:** National top 50