Nakul Kokate

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Professional Summary

Software developer and cybersecurity undergraduate building SQL-backed business applications, approval workflows and automation for manufacturing, client operations and an NGO. Work across **TypeScript/Next.js, Python, C#/.NET, REST APIs and PostgreSQL/MS SQL Server**, with experience in access control, testing, technical documentation and stakeholder handoff. Interested in reliable software for connected products and industrial service operations.

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 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 payment workflows.
- Automated order-to-vendor and delivery planning with Google Apps Script; used road-duration matrices, Clarke–Wright savings and 2-opt refinement to produce dispatch plans and operational 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 an escalated privilege issue, reproduction context and remediation for IT/security teams.

Selected Engineering Projects

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

- Developed a controller candidate for an air-cleaner engineering prototype; compiled firmware for the Opta target and ran 1,041 host assertions covering control and fault scenarios. Physical hardware testing remains open.

JeevanSetu Wearable Safety Lab | *ESP32, Wokwi, Python/Flask, SQLite*

- Contributed to a five-device simulated alert pipeline with SOS/fall events, incident deduplication, notification retries and caregiver acknowledgement; real-device reliability is untested.

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.

Arkoun Hydroponics Explorer | *Blender, GLB, JavaScript* | Live demo

- Delivered a browser-based technical product viewer for five 3D layouts and 32 viewpoints, with inspection, comparison and animation controls.

Technical Skills

Programming & APIs: TypeScript, JavaScript, Python, C#/.NET, SQL, C++ controller prototype, REST APIs, Next.js, React, FastAPI, Flask

Data & automation: MS SQL Server, PostgreSQL/Supabase, SQLite, Google Apps Script, workflow automation, RBAC/RLS, ORS API

Testing & systems: Git, Docker, Linux, PowerShell, Wokwi simulation, host-side tests, Microsoft Entra ID/OIDC, Cortex XDR, Qualys

Recognition

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