UDIT PANDYA

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SUMMARY

Third-year B.Tech Computer Science student with a strong foundation in security-focused software design. Wrote requirements and architecture documents, planned sprints, and shipped four projects using AI coding agents (Google Antigravity, Claude, Codex, Cursor), with hands-on review and testing. Seeking a software engineering or cybersecurity internship.

EDUCATION

Kalinga Institute of Industrial Technology (KIIT) Bhubaneswar, Odisha

Bachelor of Technology in Computer Science and Engineering | CGPA: 8.24 July 2024 – July 2028

- **Relevant Coursework:** Data Structures & Algorithms, Database Management Systems, AI/ML, Distributed Systems, Secure Systems.

TECHNICAL SKILLS

Programming Fundamentals: Python, Java, C, SQL, JavaScript, TypeScript, HTML/CSS

Project Exposure (built with AI assistance): FastAPI, React, Node.js, Tailwind CSS, Three.js, Rust, WebAssembly, Scikit-learn

Databases: PostgreSQL, Redis, ClickHouse, MongoDB, NATS JetStream

Security & Tools: Docker, JWT Authentication, Row-Level Security, Alembic Migrations, Git, GitHub

AI-Assisted Engineering: Agentic Development (Google Antigravity, Claude, Codex, Cursor), Prompt Engineering, Spec-Driven Development, Task Decomposition, AI Code Review & Debugging, BRD/TAD Documentation, Agile Sprint Planning, Testing & QA

PROJECTS

PhishX — Real-Time Phishing Detection Platform | *React, FastAPI, PostgreSQL, Redis, Scikit-learn, Docker* Sept 2025 – Present

Live: phishx-app.vercel.app | GitHub: github.com/Uditpandya07/PhishX

Web platform where users paste a URL and get an instant phishing risk score, with a scan-history dashboard and a browser extension for one-click scanning.

- Designed and deployed a full-stack phishing-detection platform: a Random Forest classifier (98.2% accuracy on a balanced test set) scores URLs on 10+ heuristic features, with a Chromium extension for one-click scans.
- Specified live WebSocket scanning, HttpOnly JWT sessions, bcrypt hashing, Redis job queues and Alembic migrations; containerized with Docker.
- Wrote requirements and architecture documents, planned sprints, and reviewed and tested each sprint's output.

PhishTra — Offline Anti-Phishing Engine | *Rust, WebAssembly, TypeScript, Tauri, Android* Jan 2026 – Present

Demo: uditpandya07.github.io/PHISHTRA-DEMO

Phishing protection that runs entirely on the user's device with no cloud calls, built for browser, Android and desktop so browsing data stays private.

- Architected an offline-first phishing detection engine with no external API calls: local heuristic inference and Punycode homograph analysis in Rust.
- Specified an Android local-loopback VPN for on-device DNS filtering, WebAssembly modules for the browser extension, and ED25519-signed rule updates with rollback.
- Authored the BRD, TAD and implementation plan; tested the browser extension and Android app on real devices.

Sentinel-Beacon — Security Telemetry Platform | *Rust, ClickHouse, PostgreSQL, NATS JetStream, Docker* 2026 – Present

Security monitoring platform where a lightweight agent streams endpoint activity so teams can query threats and run response playbooks across multiple tenants.

- Designed a multi-tenant security telemetry platform: a lightweight Rust agent, NATS JetStream event streaming and ClickHouse log analytics.
- Specified PostgreSQL Row-Level Security for tenant isolation and Docker Secrets for container hardening.

KoreX — Event Operations Command Center | *React, Three.js, Framer Motion, Leaflet, Tailwind CSS* Oct 2026 – Present

Live: korex-web.onrender.com

Command center for event operations teams to monitor crowd logistics in real time on a 3D and map-based view.

- Built a real-time operations dashboard combining interactive 3D visualization and live geospatial mapping.
- Researched front-end architecture and visualization options, and directed performance tuning of WebGL render loops and telemetry updates.

LEADERSHIP & ACTIVITIES

Vice President & Core Quizzer — *Qutopia (The Quiz Club of KIIT)* Aug 2024 – Present

- Manage the club's digital platforms, serve on the organizing committee for the flagship quiz fest Udghosh, and represent KIIT in inter-university quizzes.

R&D Member — *KAEWS (KIIT Animal & Environmental Welfare Society)* Aug 2024 – Present

- Built database tracking tools to streamline volunteer coordination and rescue dispatch.

ACHIEVEMENTS

- Finalist, 'Decode and Dominate' — competitive coding event at the KIIT Annual Technical Fest.