Lokesh Sharma

slokesh2905@gmail.com | +91 9010383016 | LinkedIn | github.com/slokesh2905 | Portfolio

Education

Vellore Institute of Technology (VIT) — **Sep 2022 – Sep 2027**
5-Year Integrated M.Tech in Computer Science & Engineering (Cyber Security) — **CGPA: 8.75 / 10.0**

Kendriya Vidyalaya No. 2 NSB Visakhapatnam — **2021**
Higher Secondary School Certificate CBSE (Class XII) — **Grade: 87.6%**

Internship Experience

Full-Stack Developer Intern — **Aug 2026 – Present**
Medsnap, Remote

- Built a role-based doctor onboarding flow end to end, from PostgreSQL schema migrations and Rust/Axum REST endpoints to a 5-step Next.js wizard (profile, clinic setup, schedule, services, accounts), with 28 unit tests.
- Resolved 40+ defects across appointments, billing, prescriptions, clinic settings and reports in a live healthcare app, including a backend receipt bug that left billing data stale after repeated edits.
- Fixed search, OTP verification and phone-number validation on the public Next.js landing page and added department-based template switching in the Rust backend, working in Agile sprints with code reviews.

Projects

Tracklet – Price Tracking & Analytics SaaS Platform
Technologies: Next.js, TypeScript, PostgreSQL, Firecrawl, Vercel | Live Demo

- Engineered a scheduled multi-source price data pipeline that parses retailer structured data (JSON-LD, OpenGraph) with Firecrawl API/LLM fallbacks, bounded concurrency, exponential-backoff retries, and per-run metrics.
- Implemented a 2-stage validation layer (rejects misread prices, holds anomalous jumps until re-confirmed) over a normalized PostgreSQL schema that de-duplicates products by retailer ID into an append-only price history.
- Developed a statistical insights engine (time-weighted averages, 30/90-day ranges, least-squares regression trend, 0–100 deal score) grounding an LLM "buy or wait" verdict, with 96 unit tests and E2E tests in CI.

BEAT-WELL – AI-Powered Heart Disease Prediction Platform
Technologies: Next.js, FastAPI, Python, Tailwind CSS, Scikit-learn, AWS | Live Demo

- Delivered a cardiovascular risk-prediction web app (Next.js, FastAPI REST API, Python) on a 2-database architecture (PostgreSQL, MongoDB) for secure real-time predictions and profile management.
- Trained an XGBoost classification pipeline (200 estimators, StandardScaler preprocessing) on 14 health features with computed BMI and blood-pressure derivation, achieving 85% prediction accuracy.
- Optimized database queries and caching to cut page load time from 2.3s to 1.4s (39% faster), supporting concurrent multi-user sessions with Supabase authentication and PostgreSQL Row-Level Security.

SecureScan – Passive Web Vulnerability Scanner
Technologies: Python, Flask, PostgreSQL, BeautifulSoup, JavaScript | Live Demo

- Built an asynchronous Flask REST API that accepts scan requests, runs background-threaded scans and serves results to a client polling every 2 seconds, deployed as a 3-tier stack (Vercel frontend, Render, Neon PostgreSQL).
- Designed 4 scanner modules (headers, cookies, SQL injection, open redirects) that parse HTTP responses into structured findings across 12 types rated CRITICAL to INFO, persisted with raw SQL via psycopg2.
- Mitigated SSRF by resolving target domains to IPs and blocking 3 restricted address classes (RFC-1918 private, loopback, reserved IPv6) before any scan is initiated.

Technical Skills

Programming & Scripting: Python, SQL, C++, JavaScript, TypeScript, HTML
Frameworks & Libraries: FastAPI, Flask, Next.js, React.js, Node.js
Databases & Cloud: PostgreSQL, MySQL, MongoDB, Supabase, Neon, AWS
Tools & Platform: Git, Docker, GitHub Actions (CI/CD), REST APIs, Vercel, Render

Certifications

- **Databases and SQL for Data Science** – IBM (Dec 2025) — Link
- **AWS Certified Solutions Architect – Associate (SAA-C03)** – Amazon Web Services (Jun 2026) — Link
- **AWS Certified Developer – Associate (DVA-C02)** – Amazon Web Services (Oct 2026) — Link

Achievements & Awards

- **Competitive Programming:** Solved 200+ problems across LeetCode and Codeforces, with a focus on graph theory, optimization algorithms, and core data structures in C++ and Python.
- **National Cadet Corps (NCC) 'A' Certificate** – Awarded 'A' Grade, recognizing disciplined performance and leadership.
- **MERN XAI Hackathon – Mern Matrix Club** – Co-architected an AI-powered full-stack web application integrating 3+ third-party machine learning APIs within a 24-hour build window to qualify for the Development Round.