SAKSHAM VERMA

+91 9310312915 | sakshamverma56000@gmail.com | LinkedIn | GitHub | LeetCode | Portfolio

EDUCATION

Degree / Course	Year	Institution	Score
B.Tech (Software Engineering)	2025-Present	Delhi Technological University (DTU)	8.8 CGPA
CBSE, Class XII	2025	The Vivekanand School, Narela	89.8%
CBSE, Class X	2023	Amity International School, Noida Sector-44	95.4%

PROJECTS

HireFlow : AI Internship Application Agent

Python · FastAPI · Next.js · TypeScript · PostgreSQL · pgvector · Redis · Celery · Playwright · Ollama | *Link*

- Built a full-stack AI agent that scans Greenhouse, Lever, Ashby and Workday boards plus 107 startup career sites, ranks matches (0–100 score) in a swipe-to-review deck, then tailors the resume, writes a cover letter and fills the application in a real browser.
- Designed a FastAPI backend with 111 REST endpoints, Celery + Redis job queues and PostgreSQL + pgvector matching; the first scan finishes in ~0.3 s and sign-up to a ranked job deck takes under 1 s of server time.
- Automated form filling with Playwright, completing 12/12 benchmark application forms with every required field filled and a screenshot saved before each submission.
- Built a multi-provider LLM layer (Claude → OpenAI → local Ollama) with JSON-schema validation, prompt-injection defences, a truthfulness check against the master resume and per-user daily AI budgets.
- Shipped guardrails and security (10-minute undo window, daily cap of 25, AES-256-GCM encrypted secrets, Google OAuth, CSRF checks) verified by 474 automated tests at 81% coverage in a 6-job GitHub Actions CI pipeline.

Intelligent Dead Reckoning for GNSS-Denied Ground Vehicles

SIH 2026 · Kotlin · Jetpack Compose · Android · osmdroid · Python | *Link*

- Built the team's Android operator app (~1.6k lines of Kotlin, Jetpack Compose, Material 3) for Smart India Hackathon PS 26168: keeping a vehicle's position on the map when GPS drops out in tunnels and under bridges.
- Engineered a foreground sensor service streaming uncalibrated accelerometer and gyroscope data into an on-device dead-reckoning estimator behind a swappable backend contract, so the team's Invariant EKF can replace it without UI changes.
- Developed an OpenStreetMap navigation screen with a live track, telemetry panel and uncertainty radius, and removed silent failures by making controls aware of the tracking service's state.
- Integrated with a team pipeline (χ^2-gated GNSS, NHC/ZUPT constraints) evaluated on the IO-VNBD driving dataset by 728 Python tests against a <10% drift target, with sensors measured at 125 Hz on a Galaxy A55.

Keyline : Encrypted API Key Manager

Python · FastAPI · SQLAlchemy · PostgreSQL · JWT · JavaScript · Render | *Live* | *Link*

- Built and deployed a full-stack vault for API keys: a FastAPI REST API with OAuth2 password login issuing JWT access tokens, and a responsive JavaScript dashboard served from the same origin.
- Encrypted every stored key with Fernet (AES-128 + HMAC-SHA256) and hashed passwords with bcrypt, scoping every read and delete to the signed-in user; wrote a seed script generating 100 test users with encrypted keys.

AGEX : Multi-Agent Orchestrator for Claude Code

Claude Code · Multi-Agent Systems · Python · Bash · PowerShell | *Link*

- Open-sourced an orchestrator that turns Claude Code into a 12-agent team (planner, architect, coder, tester, reviewer, security auditor…) run by one */agex* command, with typed hand-off artifacts and parallel execution of independent work units.
- Capped coder–tester and coder–reviewer loops with circuit breakers (3 cycles per work unit, 15-dispatch soft cap) and gave each agent least-privilege tools; shipped one-line installers for macOS, Linux and Windows plus a Claude Code plugin.

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Dart, JavaScript, HTML, CSS, Shell
Frameworks & Libraries: FastAPI, Flutter, LiteRT / TensorFlow Lite, Ultralytics YOLOv8, OpenCV, NumPy, Pandas, Matplotlib, SQLAlchemy, Alembic
AI / ML: Gemma (on-device & server), Whisper ASR, LLM Function Calling, Parameter-Efficient Fine-Tuning, Machine Learning (Fundamentals)
Cloud & Databases: Firebase Realtime Database, Docker, SQLite / SQL
APIs & Integrations: Google Gemini API, Open-Meteo, OSRM, TomTom Traffic, NASA EONET, USGS Hazard Feeds
Tools & Platforms: Git, GitHub, Android Studio, VS Code, Uvicorn
Core Concepts: Data Structures & Algorithms, Problem Solving, Offline-First Architecture, REST APIs

ACHIEVEMENTS

- Top 5 — Synapse Hackathon
- Solved 300+ problems on LeetCode
- Secured Rank 9 — AIMS Hackathon
- GirlScript Summer of Code (GSSoC) 2026 — Active Contributor
- Google Solution Challenge participant
- Gemma 4 Good track participant