

HIMANSHU LADE

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PROFESSIONAL SUMMARY

Founding Engineer specialising in AI integration, local-first systems, and high-performance infrastructure. Led solo disaster recovery with 100% data restoration and 88% load time improvement. Built privacy-first AI tooling and shipped open-source tools with 550+ downloads in week one, currently at 458 downloads after 7 months of updates..

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, Dart, SQL
Frameworks: React.js, Next.js, Node.js, FastAPI, Flutter, Streamlit, GraphQL
Cloud & DevOps: AWS (EC2, S3, Lambda, RDS), Docker, GitHub Actions, CI/CD, Nginx, Redis
AI & Data: RAG, Ollama, ChromaDB, MCP Servers, Isolation Forests, Shannon Entropy, sentence-transformers, ElevenLabs

PROFESSIONAL EXPERIENCE

- Founding Engineer** — Ask Jay Services, Sydney May – Oct 2025
- Led solo disaster recovery of breached production system — 100% data restored, zero data loss, load time cut from 25s to 3s (88% improvement) in 30 hours
 - Architected three-sided Flutter marketplace from scratch; engineered CI/CD pipelines with Docker & GitHub Actions for zero-downtime deployments
 - Launched 700+ SEO-optimised landing pages driving regional expansion and organic traffic growth
- Web Developer Intern** — Australian Computer Society Sep 2023 – Feb 2024
- Improved frontend performance ~33% for MERN stack app serving 200+ users; remediated 15+ OWASP Top 10 security vulnerabilities

NOTABLE PROJECTS

BackPocket OS — Privacy-First AI Admin Platform Apr 2026

WSTI AI Innovation Hackathon — Grand Finalist

- Sole technical contributor; built local-first AI ops platform for sole traders using Ollama (on-device LLM), ChromaDB, FastAPI, and ElevenLabs — no data leaves the device
- Designed domain-specific MCP servers for leads, quotes, and pipeline; implemented voice command engine with intent classification and hybrid rule-based + LLM email triage

Tech: Python, FastAPI, Ollama, ChromaDB, Streamlit, SQLite, ElevenLabs, MCP Servers

Network Guardian AI — Threat Detection System Nov 2025 – Feb 2026

Google DeepMind Hackathon

- 3-stage ML pipeline (Shannon Entropy + Isolation Forests) for malicious traffic detection; refactored to 100% offline Ollama inference — CPU usage dropped from 183% to <1%

Tech: Python, FastAPI, Scikit-learn, Ollama, Docker, SQLite, SQLAlchemy

CodeFlow-Hook — Multi-Agent AI Code Review Tool Oct 2025 – Present

Open Source

- Multi-agent system with Security and Architecture agents for parallel code analysis; RAG-powered context-aware reviews — 450+ NPM downloads in first month

Tech: Node.js, TypeScript, Ollama, RAG, Vector Search, Docker

LifeOS — Personal AI Nudge Engine Feb 2026

Mistral AI × UNSW Founders Hackathon

- RAG pipeline over Google Calendar, Fit, and Drive data; geolocation-triggered AI nudges based on free time windows and proximity — built solo in 30 hours

Tech: Python, FastAPI, React, Mistral AI, Google APIs, sentence-transformers

EDUCATION

Master of Computer Science — University of Wollongong, Wollongong 2024

B.Eng. Computer Technology — Nagpur University, India 2020