Nikhil Kumar

Hyderabad, India | Open to relocation
nikhilnkup@gmail.com | linkedin.com/in/nkupa | github.com/Nikhil-K-u | nikhil-k-u.github.io

Summary

Backend software engineer (Java, Spring Boot, Python) with 2+ years at KloudGin, an enterprise field-service SaaS company built on microservices (full time since Aug 2025, after a year-long internship). Rebuilt a 10-hour batch ingestion job into a multithreaded, cached pipeline that finishes in 10–20 minutes, and owned, built and deployed a live AWS service portal integrated with a legacy ERP. Works in Agile sprints and builds daily with Claude Code.

Technical Skills

Languages: Java, Python, SQL, TypeScript, Bash
Backend: Spring Boot, Microservices, REST APIs, FastAPI, Flask, Multithreading & Concurrency, Caching (LRU), Query Optimization & Indexing, OAuth / Token Auth, Backend-for-Frontend
Cloud & Data: AWS (EC2, S3, SNS, SES), Azure, MySQL, Oracle SQL, MongoDB, Qdrant
Tools & Practices: Git, Linux, CI/CD, Postman, Agile/Scrum, Claude Code; LLM APIs (OpenAI, Gemini), LangChain, RAG

Experience

KloudGin Inc. – Enterprise Field-Service & Asset Management SaaS Hyderabad, India
Associate Software Engineer *Mar 2026 – Present*

- **Multithreaded ingestion engine:** Engineered a concurrent Java engine that loads hundreds of thousands of Esri GIS asset records through the KloudGin REST API (4 calls per record); thread-safe, de-duplicated work distribution raised throughput **70%** at about 90% CPU utilization and eliminated race conditions.
- **Caching:** Designed a custom **LRU cache** that removed **300,000+ redundant API calls** per cycle, cutting batch runtime from **10+ hours to 10–20 minutes** (about 90% faster).
- **Database performance:** Profiled slow queries and added targeted indexes, keeping API responses **under one second**.

Trainee Software Engineer *Aug 2025 – Feb 2026*

- **Service portal, owned end to end:** Owned, built and deployed on **AWS EC2** a citizen-facing 311 service portal in 3–4 months (issue reporting, case tracking, map view, photo upload, alerts), integrated with a legacy ERP.
- **Secure API layer:** Routed every ERP call server-side through a Backend-for-Frontend; the server obtains and refreshes OAuth tokens and holds API keys, so the browser keeps only a session cookie and never sees internal endpoints.
- **Cloud pipelines:** Built an S3 image-upload pipeline with presigned URLs, and real-time SMS/email case alerts with tracking links on **Amazon SNS and SES**.

Software Engineer Intern – backend & integrations, converted to full time *Aug 2024 – Jul 2025*

Projects

LLM Browser-Agent Toolkit (Personal) | *Python, Gemini API, JavaScript, Claude Code* 2026

- Built a **Python HTTP service** that turns live web pages into compact JSON for an AI agent (**18–55x smaller**), with a multi-model fallback chain under per-key quota tracking, per-host result caching, and a postMessage relay that works under strict CSP.

Outage Map Portal | *Java/Python backend, Esri ArcGIS, Next.js*

- Real-time streetlight outage map: create outage cases directly from map assets, with backend services that sync map state immediately so every user sees a consistent view.

JalDristi – Multi-Modal AI Analytics (Smart India Hackathon, team of 4) | *Python, Azure CV, OpenAI*

- Proposed the idea and built the AI module: Selenium social-media scraping, Azure Computer Vision captions fed into OpenAI crisis summaries, and a Pandas criticality score that ranks alerts.

Training & Certifications

PwC Acceleration Centers India – Cloud & Digital Launchpad (training) | *Java, Oracle, DevOps, Cloud* 2024
Microsoft Certified: AI Fundamentals (AI-900); Security, Compliance & Identity Fundamentals (SC-900)
Google Cybersecurity Professional Certificate

Education

B.Tech in Computer Science Engineering, CGPA 8.5 – Siksha 'O' Anusandhan University 2021 – 2025