

AMAN KUMAR

AI ENGINEER & FULL-STACK DEVELOPER

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SUMMARY

AI engineer building LLM applications with traceable decisions, approval-gated actions and explicit failure recovery. Experience spans AI product delivery at SIP Organization and self-adaptive systems at micro1.

EXPERIENCE

Project Lead Developer Intern

Jul 2026 - Present

SIP Organization | Remote

- Lead development of AI-powered WhatsApp onboarding and customer-assistance products, including context-aware conversations and response orchestration.
- Build backend integrations across AI microservices, coordinating reliability and end-to-end delivery.

AI Engineer Intern

Aug 2025 - Jul 2026

micro1 | Remote

- Implemented automatic worker spawning and dynamic task allocation in a self-adaptive AI architecture.
- Built modular cells for inter-cell communication, workload distribution, resource management and monitoring.

Independent AI / Machine Learning Developer

2025 - Present

Freelance | Remote

- Deliver AI and automation workflows with PyTorch, FastAPI, Dify and n8n; build reproducible training, evaluation, inference and data-processing pipelines.

PROJECTS

Autonomous Personal Agent | Durable Agent Control Plane

2026

Python, FastAPI, PostgreSQL, Redis, Docker | Local alpha | [Source](#)

- Built a self-hosted agent control plane with a PostgreSQL transactional outbox, Redis dispatch, owned worker leases, retries and dead-letter recovery.
- Bound external actions to human approval of the exact payload; persisted execution receipts to refuse duplicate side effects after restarts.
- Integrated local Qwen inference and hosted-model fallback boundaries; isolated Docker workers and gated CI on dependency, secret and image scans.

AtlasLM | Evidence-Grounded RAG Workbench

2026

Next.js, TypeScript, Qdrant, Upstash Vector, OpenRouter | [Live](#) | [Source](#)

- Built a live document-intelligence workbench that reconstructs PDF text, creates deterministic chunks and tracks source metadata through retrieval.
- Combined dense vector search and BM25 with reciprocal rank fusion, reranking and MMR; added pre-generation sufficiency checks and post-generation citation audits.
- Shipped a Vercel/Upstash deployment and local Qdrant adapter with document-scoped semantic caching, timed traces and reproducible retrieval evaluations.

MinePulse / KarixMC | Live Marketplace + Minecraft Plugin

2026

Next.js, TypeScript, Java, PostgreSQL, Redis, Prisma, Nginx | [Live](#) | [Source](#)

- Built and deployed a Minecraft marketplace connecting a Next.js application to a Java Paper plugin for account linking, verified playtime rewards and server stores.
- Designed transactional ledgers and purchase delivery with expiring claims, durable plugin receipts and automatic refunds for expired deliveries.
- Authenticated requests and responses with HMAC-SHA256 and persisted nonces; operated two app replicas behind Nginx with PostgreSQL, Redis and encrypted backups.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, SQL

AI / ML: LLM applications, retrieval-augmented generation (RAG), agentic systems, PyTorch, embeddings, evaluation

Backend / Data: FastAPI, Next.js, React, REST APIs, PostgreSQL, pgvector, Redis, Qdrant, Prisma, OAuth

Infrastructure: Docker, Linux, Nginx, GitHub Actions, CI/CD, Vercel, VPS, observability, webhooks

EDUCATION & CERTIFICATION

B.Sc. Computer Science

Aug 2024 - Sep 2028

Scaler School of Technology in collaboration with BITS Pilani | Bengaluru, India

Certified Freelance AI / Machine Learning Developer - micro1, Mar 2026 | [Certificate](#)