Abhishek Gupta

Software Engineer | AI Engineer
+91 7839939905 | abhishekgupta0118@gmail.com | LinkedIn

Experience

Software Development Engineer - 1 May 2026 – Present
Orange Health Labs *Bangalore, India*

- Reduced report generation latency through backend workflow optimizations and rendering pipeline improvements.
- Developed **Zest**, an internal AI triage tool that classifies incoming Freshdesk tickets, flags missing info, drafts customer replies via LLM, and syncs ticket status - cutting TSE triage time with end-to-end automation from intake through RCA investigation.
- Architected an AI code-intelligence platform (**Jarvis**) indexing **63 repositories** using a **Vectorless Hybrid RAG** pipeline **tree-sitter** AST parsing, **NetworkX** dependency graphs with Leiden community detection, BM25, and FTS5 replacing vector embeddings and improving answer accuracy from ∼55% to ∼90% with 40x faster indexing.
- Built **8+ autonomous agents** within Jarvis: an automated JIRA-to-PR pipeline (triage → code generation → self-review → publish), a production **RCA investigator** querying databases/SigNoz/Sentry with memory-backed deduplication, an inline **PR reviewer**, and a natural-language **SQL agent** - driving org-wide adoption.
- Migrated reporting infrastructure from **Jinja2** to **Marko.js**, improving rendering speed, maintainability, and scalability.

Associate Software Engineer Aug 2025 – Apr 2026
Orange Health Labs *Bangalore, India*

- Designed and scaled distributed backend systems in **GoLang** to support high-volume lab operations and concurrent customer workflows.
- Built event-driven pipelines and a **Worker-Consumer architecture** using **Redis** and **Memcache** for asynchronous task orchestration and low-latency processing.

Software Engineer Intern May 2025 – Aug 2025
Orange Health Labs *Bangalore, India*

- Designed and implemented the web interface for the Central Data System, streamlining internal data access for operations teams.
- Collaborated cross-functionally with product and operations teams to deliver high-impact reporting improvements.

Projects

Hireish | *AI-powered live technical interview platform*

- Built a full-stack platform with **6 microservices** (Go + Python) where an AI interviewer conducts live voice interviews via **OpenAI Realtime API**, with a sandboxed code editor (**Judge0**), system design canvas (**React Flow**), and automated PDF scoring reports.
- Engineered real-time anti-cheat proctoring using **MediaPipe** face/head-pose detection, keystroke confidence scoring, prompt-injection filtering, and a WebSocket observer mode for live committee oversight.
- Designed the candidate-facing **React 19 + TypeScript** frontend with **Monaco Editor**, bidirectional audio streaming, and **HeyGen** AI avatar integration, backed by **PostgreSQL**, **Redis**, and **AWS S3** infrastructure.

Technical Skills

Backend: GoLang, Python (Django), Node.js, Redis, Microservices, Worker/Consumer Architecture
AI / ML: Deep Learning, RAG Systems, NLP, PyTorch, TensorFlow, Knowledge Graphs
Frontend/Mobile: React.js, JavaScript, Flutter, HTML/CSS
Dev Tools: Git, Docker, Firestore, CI/CD Pipelines
Languages: Go, Python, JavaScript, C++

Education

Master of Technology (M.Tech), Artificial Intelligence — Jul 2024 – Jul 2026
Netaji Subhas University of Technology (NSUT) — *Delhi, India*

Bachelor of Technology (B.Tech), Computer Science Engineering — Dec 2020 – May 2024
Dr. A.P.J. Abdul Kalam Technical University (AKTU) — *Lucknow, India*