MUHAMMAD HUZAIFA GHORI

Software Engineer | Agentic AI & LLM Systems | Python · FastAPI · LangGraph

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Karachi, Pakistan · Open to relocate to the UAE

PROFESSIONAL SUMMARY

Software Engineer with 2.5+ years of experience building production AI systems and SAP ERP extensions with Python, FastAPI and LangGraph. Built an AI-assisted development platform that lets SAP technical consultants generate SAP modules with Claude, and delivered an agentic HR assistant now live with an enterprise customer. Experienced in RAG, text-to-SQL, chatbots and SAP integration. Co-author of four peer-reviewed journal articles on AI in healthcare and an Anthropic Claude Certified Architect.

CORE SKILLS

- **AI / LLM:** LangGraph, LangChain, OpenAI, Azure OpenAI, Gemini, Claude, multi-agent systems, tool calling, guardrails, prompt caching, LangFuse
- **RAG & Vector DBs:** Pinecone, ChromaDB, PostgreSQL pgvector
- **Backend & APIs:** Python, FastAPI, Flask, REST APIs, Server-Sent Events, Selenium automation
- **Data:** PostgreSQL, SQL Server, text-to-SQL, ETL pipelines, scheduled data sync
- **Enterprise & Cloud:** SAP ERP extensions, SAP BTP, SAP integration, AI-assisted development with Claude, GCP, Azure, Docker
- **Front-end & Mobile:** Flutter, Angular, HTML5, CSS3, JavaScript, Bootstrap, Streamlit · **Chatbots:** Google Dialogflow, LLM + Dialogflow hybrids

WORK EXPERIENCE

Software Engineer — TallyMarks Consulting, Karachi **Jul 2025 – Present**

- Develop custom SAP ERP extensions: build functionality that standard SAP cannot deliver as external applications, then integrate it back into SAP.
- Built an AI-assisted development platform for SAP that lets technical consultants generate SAP modules with Claude from their requirements, with consultant review and approval before release.
- Run AI-awareness and enablement sessions for SAP technical consultants on using AI in day-to-day development.
- Led the backend team for an Employee Self-Service (ESS) system: designed the architecture and secure REST APIs, and delivered all modules.
- Built the ESS Agent, a conversational HR assistant live with an enterprise customer: 34 business operations, multi-tenant isolation and 900+ automated tests.
- Developed a GenAI product with multi-source data integration; built custom Python modules for SAP and Selenium-based process automation.

Senior Research Assistant (AI & Full Stack) — Aga Khan University Hospital **Aug 2024 – Dec 2024**

- Built web and mobile interfaces for the research team's AI models, served through Python Flask APIs.
- Developed RAG chatbots with Azure OpenAI and LangChain for healthcare research projects.
- Contributed to four peer-reviewed publications, writing the technical and system-design sections.

Chatbot Developer — Hazdor **Jan 2024 – Nov 2024**

- Designed and deployed Dialogflow chatbots for international clients, including a resource-locator bot for a residents' agency in Romania.
- Combined Dialogflow intent flows with OpenAI LLMs to keep conversations on track and handle open-ended queries.
- Automated client workflows with GCP APIs: spreadsheet data entry and data extraction from Word and PDF files on Google Drive.

Data Engineering Intern — TallyMarks Consulting, Karachi **Apr 2023 – Jun 2023**

- Built and maintained ETL pipelines and process-automation scripts for consulting clients.

KEY PROJECTS

ESS Agent — Conversational HR Assistant **LangGraph, FastAPI, Flutter, Angular**

- Autonomous agent that lets employees and managers check attendance, apply for leave and approve requests in plain language via the client's live HR APIs.
- Hierarchy-scoped access, SQL query guarding and anti-fabrication checks keep authorization decisions out of the LLM.
- Streams replies over SSE to Flutter and Angular clients; runs on Gemini, OpenAI or self-hosted models; prompt caching cuts cost.

Intracare AI Bot — Healthcare Analytics **LangGraph, FastAPI, PostgreSQL**

- Text-to-SQL analytics assistant over a healthcare data warehouse returning validated SQL results, written insights and chart-ready data.
- LangGraph super agent with an intent guard, SELECT-only SQL safety validator, self-correcting retry loop and six specialist agents; LangFuse tracing and a scheduled SQL Server → PostgreSQL sync.

snapNtrade (Founder) **snapntrade.com · Live on Google Play**

- Peer-to-peer electronics marketplace where AI rates each item's condition from live in-app photos and generates its description.
- Fraud controls: duplicate and reused-image detection, location capture and verified digital invoices with unique serial numbers.

EDUCATION

BS Computer Science — University of Karachi **2021 – 2025**

CERTIFICATIONS

- **Claude Certified Architect – Foundations, Anthropic** — May 2026 (valid to May 2027) · Credential
- **Certified Front-End Web Developer**

PUBLICATIONS

- Use of generative AI models in healthcare: a scoping review — *BMC Artificial Intelligence*, 2026
- Web-based deep learning cascade for detecting marginal bone loss — *BMC Oral Health*, 2026
- Asynchronous teledentistry for caries detection — *International Dental Journal*, 2026
- Annotated intraoral image dataset for dental caries detection — *Scientific Data (Nature)*, 2025

LEADERSHIP & LANGUAGES

- **Lead, Microsoft Learn Student Club, University of Karachi** (Microsoft Learn Student Ambassador), Oct 2022 – 2025 · Gold Medal in Co-Curricular Activities
- **Languages:** English (Professional), Urdu (Native)