



Ahmad Samim Hamza

Software Engineer | MSc in Artificial Intelligence

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ABOUT ME

Software engineer and Master's student in Artificial Intelligence at the University of Jyväskylä, with 4+ years of experience building production systems across full-stack, backend, and ERP domains. Currently applying AI skills in an industry setting — developing RAG pipelines and LLM-based chatbots at Konecranes using LangChain and LangGraph. I bring a rare combination of solid engineering foundations and growing applied ML expertise, with hands-on experience in PyTorch, TensorFlow, and scalable API development.

SKILLS

Core ML Stack

- TensorFlow / Keras
- PyTorch
- NumPy & Pandas
- Matplotlib
- scikit-learn
- LangChain
- LangGraph

Backend

- Python
- FastAPI
- Django
- PHP
- Laravel
- NestJS / Express.js

Databases & Tools

- PostgreSQL
- MySQL
- Git
- Docker
- Linux
- Cloud / AWS

Frontend

- React
- Next.js
- Vue.js
- Nuxt.js
- Livewire
- Alpine.js

WORK EXPERIENCE

Summer Trainee, Software Development Specialist, Konecranes 🌐

05/2026 – Present
Hyvinkää, Finland

- Developing a production-grade AI Chatbot for Konecranes' internal systems using LangGraph, LangChain, and Retrieval-Augmented Generation (RAG) architecture.
- Implementing document parsing and ingestion pipelines using Docling to process enterprise knowledge sources into a PostgreSQL-backed store.
- Building RESTful APIs in Python to expose chatbot functionality and integrate with existing internal systems.
- Designing stateful, multi-turn conversational flows using LangGraph's agent orchestration framework.
- Collaborating with cross-functional teams to align AI chatbot features with internal business requirements and system constraints.

SENIOR SOFTWARE ENGINEER, RAMAKI GROUP OF COMPANIES

05/2024 – 07/2025
KABUL, AFGHANISTAN

- Guided and coordinated a team of 8 engineers during the development of an e-commerce project.
- Database Analysis and Design.
- Develop API & Backend Logic: Building RESTful APIs and GraphQL APIs.
- Testing: Writing unit, integration, and feature tests.
- Conducted code reviews and provided mentorship to junior developers, fostering a collaborative development environment.

SOFTWARE ENGINEER, PEACE GLOBAL LOGISTICS

09/2022 – 04/2024
KABUL, AFGHANISTAN

- Developed logistics and supply-chain modules using NestJS, React, and Next.js

- Designed PostgreSQL databases and optimized complex queries
- Implemented reusable UI components in React + Tailwind
- Collaborated with cross-functional teams to deliver ERP features for 200+ daily users

Kabul University, Instructor (Python & Machine Learning)

04/2022 – 10/2022

- Taught Python programming and fundamentals of Machine Learning to freshman and sophomore students.
- Volunteered for 7 months as part of an academic training program.
- Contributed to students' practical skills and understanding of programming and AI foundations.

Kabul, Afghanistan

FULL STACK DEVELOPER, SMART FRIQI

26/07/2021 –

- Built ERP modules using Laravel, Nuxt.js, and PostgreSQL

20/09/2022

KABUL, AFGHANISTAN

- Added real-time features using WebSockets
- Developed front-end interfaces and dashboards for business management

WEB DEVELOPER, TWISTED BITS ICT

01/05/2021 –

- Developed two management information systems using Laravel and Vue.js

15/07/2021

KABUL, AFGHANISTAN

- Delivered projects under tight deadlines with a small team

EDUCATION

University of Jyväskylä, Master of Science in Artificial Intelligence

08/2025 – Present

Jyväskylä, Finland

Kabul University, Bachelor of Computer Science (Software Engineering)

2017 – 2021

Kabul, Afghanistan

LANGUAGE SKILLS

PERSIAN



ENGLISH



Finnish



PROJECTS

PGL ERP System, Tech: NestJS, React, Next.js, PostgreSQL

09/2022 – 04/2024

- Built logistics, shipments, HR, and inventory modules
- Designed API endpoints and optimized data flow

TGL Supplies System, Tech: Node.js (Express), React, PostgreSQL

08/2023 – 12/2023

- Developed backend features and admin panel components

United Used Cars System, Tech: Laravel, Next.js, MySQL

10/2022 – 08/2023

- Built a full website + admin dashboard for a car dealership

TeebAlhoor ERP, Tech: Laravel, Nuxt.js, PostgreSQL

08/2021 – 05/2022

- Developed and maintained the user, customer, product, file, and task management systems of the ERP.