

Harun Mohamed Huka

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SUMMARY

Software & Machine Learning Engineer with 5 years of experience building full-stack, production ML and LLM-powered systems for recommendation, ranking, and personalization. Skilled in reinforcement learning, time-series forecasting, and agentic workflows (RAG, LangChain, LangGraph), with end-to-end experience designing large-scale ML systems, real-time data pipelines, and scalable AWS deployments that deliver measurable business impact.

TECHNICAL SKILLS

Languages: Python, C++, SQL, JavaScript, TypeScript, Bash, Git

ML & AI: Recommendation Systems, Ranking & Personalization, Deep Learning, Reinforcement Learning, Time-Series Forecasting, Generative AI, LLMs, Agents, RAG, LangChain, LangGraph, OpenAI API, Model Deployment, Feature Engineering

Frameworks: PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, OpenCV, React, Node.js, FastAPI, Flask

Data & MLOps: PostgreSQL, MongoDB, Pinecone, FAISS, Airflow, Kafka, Docker, Kubernetes, CI/CD, REST APIs for ML Inference, Experiment Tracking

Cloud: AWS (EC2, S3, SageMaker, Lambda, Bedrock), GCP (BigQuery, Cloud Functions)

PROFESSIONAL EXPERIENCE

Applied AI Engineer, Elevation Capital

May 2026 – Present

- Lead end-to-end development of multiple AI products, most notably instahire.com, an AI-powered interview platform, owning architecture, ML systems, and product direction.
- Manage and mentor a team of engineers across model development, backend infrastructure, and deployment.
- Design and ship LLM-driven ranking, personalization, and recommendation features that improve user-facing product experiences at scale.

Machine Learning Engineer, Yaha

Nov 2023 – Apr 2026

- Built and deployed recommendation and product-ranking systems, improving sales by 27% and click-through rate by 33%.
- Designed agentic semantic search and recommendation pipelines using embeddings + RAG to improve discovery beyond keyword matching.
- Implemented an LLM-powered, RAG-based customer support assistant for automated query handling; integrated external tools and APIs to enable tool-using agents and structured outputs.
- Developed Node.js/TypeScript REST APIs for real-time inference and deployed microservices on AWS (Lambda, S3, EC2, Bedrock/OpenAI) with event-driven personalization pipelines.

Graduate Research Assistant, Applied AI, York University

Sep 2024 – Apr 2026

- Built RL-based rebalancing and repositioning agents (PPO) for shared autonomous fleets using spatio-temporal demand forecasting within a simulation digital twin.
- Designed LLM-powered decision workflows (LangChain) with RAG over historical demand to dynamically select coordination strategies, achieving up to 84% serve rate under high-demand scenarios.
- Exposed models and simulation components via FastAPI services for modular experimentation.

Machine Learning Engineer Intern, Waypoint Centre for Mental Health Care

Jan 2024 – May 2024

- Developed deep-learning workforce-demand forecasting models from operational data; engineered features, optimized training pipelines, and delivered deployable artifacts for planning workflows.

Backend Engineering Team Lead, Tajriba

Mar 2023 – Nov 2023

- Built recommendation and search-ranking algorithms plus large-scale data pipelines for a travel marketplace; led code reviews and engineering best practices.

Software Engineering Team Lead, GÜNSEL Electric Vehicles

Apr 2021 – Mar 2023

- Led embedded software and data-driven UI development under strict latency constraints across cross-functional engineering teams.

PUBLICATIONS

- Explainable Machine Learning for Spatio-Temporal Demand Forecasting in Autonomous Vehicle Fleets
- Smart Shared Mobility with Autonomous Vehicles: A Comprehensive Review of Emerging Systems and Future Directions
- Stochastic Demand Generation and Predictive Rebalancing for Shared Autonomous Fleets
- CABEE: A Multi-Agent Ride-Sharing Framework for Coordination of Shared Autonomous Fleets

EDUCATION

M.S. Information Systems & Technology, York University

2024 – 2026

Graduate Diploma, AI with Machine Learning, Humber College

2023 – 2024

B.Sc. Software Engineering, Near East University

2018 – 2022