

Enver Bashirov

LEAD AI ENGINEER · TEAM LEAD

Padova, Italy

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Work Experience

Hekanize

Padova, Italy

Lead AI Engineer

Dec. 2024 – Present

- Joined as the first engineer and defined the AI roadmap of a SaaS CRM platform integrating generative AI and LLM-based automation.
- Built and led a team of 8 developers; coordinated 2 supplier teams delivering AI-driven and backend modules.
- Developed RAG pipelines for enterprise document search using LangChain, LangGraph, ChromaDB, and OpenAI/Anthropic LLM APIs.
- Built semantic / hybrid search systems with vector DBs, embeddings, and knowledge-graph reasoning for content and course recommendation.
- Built multi-agent workflows with LLM reasoning, prompt chaining, and LangGraph tools for automated summarization and insight extraction.
- Architected and refactored AWS Terraform infrastructure (ECS, VPC, ALB/NLB, Lambda) reducing cloud costs by over 50%.
- Deployed a Dockerized Hetzner environment with reverse proxy, DNS routing, and microservice orchestration for dev/testing.
- Maintained CI/CD GitHub Actions pipelines and observability stack across Python, Java, C#, and PHP services to ensure reliable deployments.

GeoInference

Padova (Remote), Italy

Software Engineer · Computer Vision Engineer

Oct. 2024 – Nov. 2024

- Developed container-segmentation REST API and visual defect detection pipelines using Python, Flask, and OpenCV.

MINTS

Padova, Italy

Machine Learning Engineer

Mar. 2020 – Mar. 2023

- Developed radar-based deep learning models (CNN, RNN, YOLOv3) and distributed edge computing systems in PyTorch.

Nokia Bell Labs

Espoo, Finland

Machine Learning Engineer

May 2022 – Aug. 2022

- Built Wi-Fi signal peak detection and feature-extraction pipelines with scikit-learn, pandas, and numpy for indoor localization research.

IMDEA Networks

Madrid, Spain

Machine Learning Engineer

Jan. 2021 – Jun. 2021

- Developed TensorFlow-based models for human activity recognition, implemented signal denoising, and optimized model deployment on edge devices.

Eastern Mediterranean University (EMU)

Famagusta, Cyprus

Software Engineer

Sep. 2018 – Jul. 2019

- Developed internal enterprise systems and front-end modules using C#, .NET, NodeJS, and AngularJS.

Education

University of Padova (UNIPD)

Padova, Italy

Ph.D. in Information and Communication Technology

Oct. 2019 - Oct. 2023

- Focus: Machine Learning, Computer Vision, Edge Computing

Eastern Mediterranean University (EMU)

Famagusta, Cyprus

M.Sc. in Applied Mathematics and Computer Science

Sep. 2017 - Jul. 2019

- Focus: Artificial Intelligence, Distributed Systems, Network Security

Bilkent University

Ankara, Turkey

B.Sc. in Computer Engineering

Sep. 2012 - Jul. 2017

- Core studies in Systems Programming, AI, Image Analysis, and Computer Graphics

Skills

AI / ML

LLMs (OpenAI, Anthropic, Mistral), LangChain, LangGraph, LlamaIndex, PyTorch, TensorFlow, Scikit-Learn, ChromaDB, FAISS, FastAPI, SQLAlchemy, Alembic

Techniques / NLP

Retrieval-Augmented Generation (RAG), Prompt Engineering, Prompt Chaining, Semantic Search, Knowledge Graphs, Embeddings, Generative AI, Recommendation Systems, Computer Vision, Object Detection

DevOps / MLOps

Terraform, AWS (ECS, Lambda, S3, CloudFront, VPC), Docker, CI/CD (GitHub Actions), Linux, Hetzner, Monitoring, Networking, Model Deployment, Versioning (DVC)

Languages

English (IELTS 7.5), Turkish (native), Azerbaijani (native), Russian (intermediate), Italian (A2)