Enver **Bashirov**

AI SOFTWARE ENGINEER · TEAM LEAD

Padova, Italy

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Work Experience

Hekanize
AI ENGINEER · TEAM LEAD

Padova, Italy

Dec. 2024 – Present

- Joined as one of the first engineers and helped define the architecture and AI roadmap of a SaaS CRM platform.
- Built and led a team of 8 developers; coordinated 2 supplier teams delivering AI-driven and backend modules.
- Developed RAG-based document retrieval and search systems using LangChain, LangGraph, ChromaDB, and LLMs.
- Implemented graph-based recommendation engines for course and content matching using embeddings, vectorization, and PostgreSQL.
- Built report-generation agents leveraging LLM reasoning and LangGraph tools for automated content summarization.
- Architected and refactored AWS Terraform infrastructure (ECS, VPC, Security/Target Groups, NLBs, ALBs etc.), cutting cloud costs by over 50%.
- Deployed a Dockerized Hetzner environment with reverse proxy and DNS routing for microservice inter-communication and dev testing.
- Maintained CI/CD Github Actions pipelines and observability stack across Python, Java, C#, and PHP services to ensure reliable deployments.

GeoInference
SOFTWARE ENGINEER · COMPUTER VISION ENGINEER

Padova (Remote), Italy

Oct. 2024 – Nov. 2024

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

MINTS
MACHINE LEARNING ENGINEER (RESEARCH)

Padova, Italy

Mar. 2020 – Mar. 2023

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

Nokia Bell Labs
MACHINE LEARNING ENGINEER INTERN

Espoo, Finland

May 2022 – Aug. 2022

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

IMDEA Networks
MACHINE LEARNING ENGINEER INTERN

Madrid, Spain

Jan. 2021 – Jun. 2021

- Developed TensorFlow-based models for human activity recognition and implemented signal denoising algorithms.

Eastern Mediterranean University (EMU)
SOFTWARE ENGINEER

Famagusta, Cyprus

Sep. 2018 – Jul. 2019

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

Education

University of Padova (UNIPD)
PH.D. IN INFORMATION AND COMMUNICATION TECHNOLOGY

Padova, Italy

Oct. 2019 - Oct. 2023

- Focus: Machine Learning, Computer Vision, Edge Computing

Eastern Mediterranean University (EMU)
M.SC. IN APPLIED MATHEMATICS AND COMPUTER SCIENCE

Famagusta, Cyprus

Sep. 2017 - Jul. 2019

- Focus: Artificial Intelligence, Distributed Systems, Network Security

Bilkent University
B.SC. IN COMPUTER ENGINEERING

Ankara, Turkey

Sep. 2012 - Jul. 2017

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

Skills

AI & ML	LangChain · LangGraph · LLMs · PyTorch · TensorFlow · Scikit-Learn · ChromaDB · FastAPI · SQLAlchemy · Alembic
DevOps	Terraform · AWS (ECS, Lambda, CloudFront, VPC) · Docker · CI/CD (GitHub Actions) · Linux · Hetzner · Networking · Monitoring
Techniques	RAG Pipelines · Prompt Engineering · Neural Networks · Embeddings · Graph Recommendations · Clustering (k-means, DBSCAN) · Dimensionality Reduction (PCA)
Applications	Document Retrieval · NLP · Recommendation Systems · Computer Vision · Object Detection
Side Projects	Image Segmentation (CV) **[code]** · LeetCode (Algorithms) **[link]** · Kaggle (ML Competitions) **[link]**
Languages	English (proficient **[IELTS 7.5]**) · Turkish (native) · Azerbaijani (native) · Russian (intermediate) · Italian (A2)