Enver **BASHIROV**

Software EngineerMachine Learning Engineer

About me

Passionate about leveraging cutting-edge technology to solve real-world challenges. With a strong foundation in software engineering and AI, I thrive on creating intelligent systems that bring innovation to life.

Personal

Enver Bashirov
Azerbaijani
31 10 1994

Areas of Specialization

Software Development
Software Engineering
Data Engineering
Machine Learning

Languages

Turkish	native
Azerbaijani	native
English	proficient
Russian	intermediate
Italian	beginner

Interests

Cycling · Inline Skating
Board Games
Coding · Travelling

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📍 Italy, Padova

EXPERIENCE

03/23 · 03/20
Machine Learning Engineer
RESEARCHER · MINTS (Padova, Italy) 📍
Exploiting millimeter wave radio signals for indoor environment sensing. This was a EU H2020 action supporting my Ph.D program
Skills: Python · Software Engineering · Machine Learning

08/22 · 03/22
Machine Learning Engineer
PH.D INTERN · Nokia Bell Labs (Espoo, Finland) 📍
Algorithmic peak detection approach for a communication architecture
Skills: Python · scikit-learn · pandas · numpy

06/21 · 01/21
Deep Learning Engineer
PH.D INTERN · IMDEA Networks (Madrid, Spain) 📍
Person detection and activity recognition architecture built on IEEE802.11 Access Points
Skills: Python · TensorFlow · PyTorch · numpy

07/19 · 09/18
Full Stack Developer
RESEARCH ASSISTANT · EMU (Famagusta, Cyprus) 📍
Front/Back-end design for university website and internal features
Skills: C# · ASP.NET · NodeJs · AngularJS · TypeScript · MySQL

07/15 · 06/15
Software Developer
INTERNSHIP · Ones Technology (Ankara, Turkey) 📍
Front/Back-end design for private data visualization
Skills: Java Web Services · JVM · JAX-WSC · GlassFish

07/13 · 06/13
System Engineer
INTERNSHIP · Fujitsu Türkiye (Ankara, Turkey) 📍
Server architecture design and network construction
Skills: C# · ASP.NET · NodeJs · AngularJS · TypeScript · MySQL

EDUCATION

2023
Information Engineering
PH.D University of Padova
Italy, Padova

2019
Computer Science
MSc. EMU
Cyprus, Famagusta

2017
Computer Engineering
BSc. Bilkent University
Turkey, Ankara

SKILLS

Python · **Java** · **LaTeX** · **Linux**
TensorFlow · PyTorch · Numpy · Pandas · Scikit
C# · **C** · **C++** · **MATLAB** · **SQL**
Git · GitHub · BitBucket · NodeJs
JavaScript · Angular · MySQL · JVM
TypeScript · **PHP** · **HTML** · **CSS**
NoSQL · MS-SQL · JAX-WS · WebGL · MVC ·
Android Studio · FIREBASE · GlassFish · AWS · Docker

CERTIFICATES & GRANTS

2020 – 2023	EU H2020 MSCA (PhD Scholarship)	Grant No: 861222
2023	Winter School: DeepLearn23	Bournemouth, England 📍
2022	Summer School: SSIE22	Brixen, Italy 📍
2021	Summer School: SSIE21	Brixen, Italy 📍
2019	Language Proficiency: IELTS	Score: 7.5
2019	Language Proficiency: TOEFL	Score: 98
2019 – 2020	EU Scholarship for Turkish Cypriots PG-NON EU	Funding: 8 000 Euros
2018 – 2019	EMU (BAP-C-02-18-01) Facial Emotion Recognition with Deep Learning in Videos	Funding: 10 000 Turkish Lira

Publications

2023 Pegoraro, J., Lacruz, J. O., Meneghello, F., **Bashirov, E.**, Rossi, M., & Widmer, J. (2023). *RAPID: Retrofitting IEEE 802.11ay access points for indoor human detection and sensing.* IEEE Transactions on Mobile Computing.

2022 **Bashirov, E.**, Canil, M., & Rossi, M. (2022, December). *RadNet: a testbed for mmwave radar networks.* In Proceedings of the 1st International Workshop on Emerging Topics in Wireless (pp. 1-5).

2022 Shastri, A., Valecha, N., **Bashirov, E.**, Tataria, H., Lentmaier, M., Tufvesson, F., … & Casari, P. (2022). *A review of millimeter wave device-based localization and device-free sensing technologies and applications.* IEEE Communications Surveys & Tutorials, 24(3), 1708-1749.

2021 Hajarolasvadi, N., **Bashirov, E.**, & Demirel, H. (2021). *Video-based person-dependent and person-independent facial emotion recognition.* Signal, Image and Video Processing, 15, 1049-1056.

2020 Pegoraro, J., Solimini, D., Matteo, F., **Bashirov, E.**, Meneghello, F., & Rossi, M. (2020, September). *Deep learning for accurate indoor human tracking with a mm-wave radar.* In 2020 IEEE Radar Conference (RadarConf20) (pp. 1-6). IEEE.

Projects

2022 **RadNet: Radar Testbed**
Research Project · UNIPD (Padova, Italy) 📍
RadNet is a multi-edge/radar interface. RadNet is meant to allow connected nodes (machines) to exchange information or (radar) data between each other. At the same time, it allows each node to perform their own local data processing and apply their algorithms if needed before data exchange is initiated.
Skills: Python · Sockets · Edge Computing · Radar Signal Processing · threading

2020 **YOLO for mmWave Radars**
Research Project · UNIPD (Padova, Italy) 📍
YOLOv3 based CNN and RNN detectors for mmWave Radar images (PyTorch)
Skills: Python · YOLO · PyTorch · Computer Vision · CNN · RNN · LSTM · GRU

cont. **LeetCode**
Side Project
Solving algorithm challenges through LeetCode platform for self development
Skills: Python · Java

2018 **METUSchedular**
Side Project
A timetable creator/schedular web application designed for visualizing courses in Middle East Technical University. Easy to use, user friendly interface with quality of life functionalities aimed to assist METU students in their course selection period.
Skills: NodeJs · Angular · TypeScript

2017 **Image Segmentation using SuperPixels**
BSc. Course Project
Image segmentation by using superpixels, Gabor Convolution, K-Means segmentation. 10 768 by 512 sample images were used for training and 1 1080 by 1919 image was used for testing. As a conclusion, larger superpixel count gave better results in the Simple Linear Iterative Clustering algorithm
Skills: MATLAB · K-Means · SLIC

2017 **NetWord**
BSc. Graduation Project
A Social networking platform for text based games. Users are categorized by analyzing inputs from the text based games and the user-matching done through this categorization, allowing users to be matched with similar views, thoughts and personalities giving an enhanced user-experience. Developed on Android Studio with Google FIREBASE
Skills: Android Studio · Java · FIREBASE