ENVER **BASHIROV**



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 Data Science Machine Learning Deep Learning Computer Vision

Languages

Turkish Azerbaijani English Russian Italian

native native proficient intermediate beginner

Interests

Cycling · Inline Skating Board Games Coding · Travelling

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- 🔵 Italy, Padova

EXPERIENCE

03/23 **Early Stage Researcher**

RESEARCHER · MINTS (Padova, Italy)

03/20 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 **Machine Learning Engineer**

Рн.D Intern · Nokia Bell Labs (Espoo, Finland)

03/22 Algorithmic peak detection approach for a communication archi-

Skills: Python · scikit-learn · pandas · numpy

06/21 **Deep Learning Engineer**

Ph.D Intern · IMDEA Networks (Madrid, Spain)

01/21 Person detection and activity recognition architecture built on IEEE802.11 Access Points

Skills: Python • TensorFlow • PyTorch • numpy

07/19 **Full Stack Developer**

RESEARCH ASSISTANT · EMU (Famagusta, Cyprus) 09/18 Front/Back-end design for university website and internal features

Skills: C# · ASP.NET · NodeJs · AngularJS · TypeScript · MySQL

07/15 Software Developer

INTERNSHIP · Ones Technology (Ankara, Turkey)

06/15 Front/Back-end design for private data visualization

Skills: Java Web Services · JVM · JAX-WSC · GlassFish

07/13 **System Engineer**

INTERNSHIP · Fujitsu Türkiye (Ankara, Turkey) 06/13

Server architecture design and network construction

Skills: C# · ASP.NET · NodeJs · AngularJS · TypeScript · MySQL















EDUCATION

2023 Information Engineering

Рн.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.

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).

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.

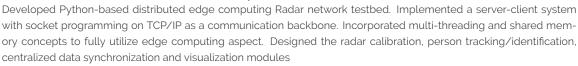
Hajarolasvadi, N., **Bashirov, E.**, & Demirel, H. (2021). *Video-based person-dependent and person-independent facial emotion recognition.*Signal, Image and Video Processing, 15, 1049-1056.

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: Full-fledged Radar Testbed

RESEARCH PROJECT · UNIPD (Padova, Italy)



 $\textbf{Skills:} \ \textbf{Python} \cdot \textbf{Sockets} \cdot \textbf{Edge Computing} \cdot \textbf{Radar Signal Processing} \cdot \textbf{threading}$

2020 YOLO: Person Detection with mmWave Radar Images

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



PERSONAL PROJECTS

cont. | LeetCode

2017

SIDE PROJECT

Solving algorithm challenges through LeetCode platform for self development

Skills: Python • Java

2018 METUSchedular: Timetable Visualizer for Student Courses

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.

 $\textbf{Skills:} \ \mathsf{NodeJs} \boldsymbol{\cdot} \mathsf{Angular} \boldsymbol{\cdot} \mathsf{TypeScript} \boldsymbol{\cdot} \mathsf{NoSql}$

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

NetWord: Social Media driven Text-based Gaming Platform

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







