

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

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
- 03/20
- 08/22

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
- 03/22
- 06/21

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
- 01/21
- 07/19

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
- 09/18
- 07/15

Software Developer

INTERNSHIP · Ones Technology (Ankara, Turkey)

Front/Back-end design for private data visualization

Skills: Java Web Services · JVM · JAX-WSC · GlassFish
- 06/15
- 07/13

System Engineer

INTERNSHIP · Fujitsu Türkiye (Ankara, Turkey)

Server architecture design and network construction

Skills: C# · ASP.NET · NodeJs · AngularJS · TypeScript · MySQL
- 06/13



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 **Inventory Classification**
ASSIGNMENT · EMU Computer Center (Famagusta, Cyprus) 
A platform with add, update, delete and report functionality for EMU's infrastructural details (University plot area, Building oxygen levels, Classroom student capacities etc.)
Skills: Angular 7 · ASP.NET · Core 2.2 · C# · MS-SQL
- 2018 **University Stats Reporter**
ASSIGNMENT · EMU Computer Center (Famagusta, Cyprus) 
A web-site/platform for displaying statistical student, program, department, faculty information since the year of establishment of EMU
Skills: ASP.NET 4 · C# · MVC
- 2018 **Android Student Portal**
ASSIGNMENT · EMU Computer Center (Famagusta, Cyprus) 
A platform for EMU students to check their academic information through an android application
Skills: Android Studio · Java
- 2018 **METUSchedular**
SIDE PROJECT
A timetable creator/scheduler 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 
- 2018 **Odd/Even Sum Computation**
MSC. COURSE PROJECT
Parallel (multi-threaded) and distributed (concurrent computation with two machines via socket programming), odd/even prefix algorithm to compute overall sum
Skills: C++ · sockets · threading 

2017	Image Segmentation using SuperPixels <i>BSc. COURSE PROJECT</i> 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 <i>BSc. GRADUATION PROJECT</i> 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	
2016	StickMan Animation <i>BSc. COURSE PROJECT</i> Stickman figure and animation with realistic but simple human-like movement. Implemented with WebGL including integrated shaders etc. Skills: WebGL	
2016	Static Memory Management <i>BSc. COURSE PROJECT</i> Raw memory management in C. Static library for creating an allocated segment, memory allocation, memory deallocation and displaying the segment information. An alternative memory allocation library using only pointers with manual address management Skills: C	
2015	I/O Testing <i>INTERN ASSIGNMENT</i> • ONES Technology (Ankara, Turkey) 📍 A system for displaying test results such as user inputs, account details, processed data information, final output etc. Data pushed by server side file was previewed in client-side page. Usage of Global Variables (GET, POST, SESSION etc.) Skills: PHP • MYSQL	
2015	Server Logging <i>INTERN ASSIGNMENT</i> • ONES Technology (Ankara, Turkey) 📍 Displaying server errors, warnings and logs. JAX-WS enables realtime browser supported preview of logs in the Glassfish server. Skills: JAX-WS • Glassfish	
2013	System Room Design <i>INTERN ASSIGNMENT</i> • Fujitsu Technology Solutions (Ankara, Turkey) 📍 Transferring and updating of old system room into a new location. Usage of; public and local, wireless and wired network management, central data traffic management, firewall configuration, data backup management, satellite connector and controller configuration etc.	