BUĞRA ALPARSLAN

Graduate Computer Engineer

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Ankara, Turkey

EXPERIENCE

Research Intern — Middle East Technical University

July 2021 – July 2022   Ankara, Turkey

`Docker` `Kubernetes`

- Deployed a software-defined container network, using Docker as containerization platform, and Kubernetes as container orchestration system on a cloud environment.
- Created a network traffic dataset of software-defined networks.
- Developed machine learning based few-shot intrusion detection and prevention models.

Senior Project Member — Middle East Technical University

October 2021 – Current   Ankara, Turkey

`Python` `Django Framework` `ResNet` `PostgreSQL` `Django REST Framework`

- Mobile app allowing users to display desk usage status of libraries/study halls using camera footage.
- Detected humans using ResNet.
- Implemented backend functionalities using Django, PostgreSQL and Django REST Framework.

Research Intern — University College Dublin

July 2020 – October 2020   Dublin, Ireland

`Python` `numpy, pandas, matplotlib, statmodels, selenium, statistics`

- Automated collection of Delhi's weather pollutant data from web.
- Analyzed and preprocessed the data.
- Used SARIMA method to make short-term time series forecasting.

PUBLICATIONS

- B. Alparslan, M. Jain, J. Wu, and S. Dev, Analyzing Air Pollutant Concentrations in New Delhi, India, Proc. Progress In Electromagnetics Research Symposium (PIERS), 2021.

EDUCATION

Computer Engineering

Middle East Technical University

Sept 2017 – July 2022

GPA: 3.63/4.00

High Honor

Graduate

Undergraduate Curriculum

SKILLS

`Python` `C/C++` `Java` `Go` `Matlab` `PostgreSQL` `Git` `Docker` `Kubernetes` `Linux` `Django Framework`

CERTIFICATES

- Using Python to Access Web Data - University of Michigan, Coursera
- Machine Learning - Stanford Online, Coursera

LANGUAGES

Native Tongue: **Turkish**

Other Languages: **English C1**, **French A2**

HOBBIES/INTERESTS

`Piano`
`History of Fine Arts`