



Emre Balsever

PYTHON & BACK-END DEVELOPER
| DATA ENGINEER

Details

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Links

[Personal Web Page](#)
[ResearchGate](#)
[LinkedIn](#)
[GitHub](#)

Skills

Python
SQL
CI/CD
Deep Learning
Machine Learning
Apache Spark & Airflow
AWS - GCP - Azure Cloud
Services

Current Occupation

- Recently, I've been working at KTH Royal Institute of Technology in a European Union project to develop back-end, database, ml pipeline, and visualization tool (GUI) for their big data. (6 months project)

Background

- 4 years of professional working experience with Python.
 - I can write APIs, Modules, Packages, and overall applications with useful comments and OOP principles.
 - Experience with Django, Flask, FastAPI, and back-end development of web applications and REST APIs.
 - Experience with Docker.
- 4 years of experience and good understanding of Cloud services.
 - I have used AWS, GCP, and Azure. I can store data in storage or DB, build a pipeline to select features, and run compute services (either integrated or custom).
 - Hosting, CI/CD, Git, production environment management.
 - I can easily adapt to new tools.
- Knowledge of C++, C#, Ruby, HTML, CSS, and JS(I can easily read, understand, and do bug fixing).
- Broad understanding of AI / ML / DL with the ability to model design using both Sequential and Functional API(TensorFlow).
- Knowledge of blockchain, smart contracts, PoW-PoS concepts, and cryptocurrencies.

Interests

- Improvement of private and corporate finance using big data and machine learning.
- Interdisciplinary work between big data, deep learning, and parallel processing.

Education

Visiting Researcher | ML & DL, Halmstad University

JANUARY 2022 – JUNE 2022

- Under the Erasmus Exchange Program
- Comparative analysis of learning systems(all types of machine learning).
- Development of Object Pose estimation for an industrial robotic arm with Scalable TensorFlow model on Spark Cluster.

Doctoral Student in Deep Learning, Istanbul University

SEPTEMBER 2019 – DECEMBER 2022

- Member of Computational Intelligence and Machine Learning Research Lab(CIML)

BSc & MSc in Electronics Engineering, Istanbul University

SEPTEMBER 2010 – DECEMBER 2018

- Focused on Artificial Intelligence.
- BSc Final project: Vehicle with Ultrasonic Eye
- MSc Thesis: Estimation of Energy Consumption Demand with Artificial Intelligence Methods

Experiences

Data Engineer, KTH Royal Institute of Technology

JUNE 2022 – PRESENT

- Under the Erasmus Exchange Program
- Database & Back-end design | Data migration | GUI & Visualization
- Storing experiments' data in a manageable way, analyzing using ML, and creating report pages using visualization tools(Streamlit, etc.).

Data Engineer, RNV Analytics

OCTOBER 2021 – JUNE 2022

- Stock allocation service design (k-libre) using Apache Spark.
- FedEx wrong surcharges analysis.
- Data Warehouse design for sales prediction in retail sector(clothing-VFCorp, Yargici, and Dagi).
- AWS (ec2, rds, s3, lambda)
- Azure (vm, data factory, sql)
- GCP (dataproc, storage, compute, bigquery)

AI/ML Developer, Entertech Istanbul

JANUARY 2021 – JUNE 2021

- Back-end development for a web application.
- Deep learning model development in text generation(Turkish).

AI/ML Developer, ITU Cekirdek

JANUARY 2020 – DECEMBER 2020

- MVP hardware design using Raspberry Pi, highly accurate sensors, and cameras.
- Development and training TensorFlow model for keyword detection on voice data.
- Fine-tuning of pre-trained model for Firearm detection.

Software Developer, Corvisio

JUNE 2019 – NOVEMBER 2019

- Worked as a full-stack developer on CRM & OKR software.

Backend & System Design Engineer, Branson GPU Farm

JANUARY 2018 – APRIL 2019

- Worked as a back-end system developer and as well as a network engineer on a mining cluster in bash scripting, Python, and C++.

PLC Programmer | Automation Engineer, Golday Kauçuk

AUGUST 2016 – DECEMBER 2016

- Performed minor maintenance and repairs on PLC machines and equipment as necessary.
- Oversaw production to ensure safe practices and equipment function.