

Furkan Aldemir

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Experience

Team Lead

Novit.AI

Oct 2023 - Present

Ankara, TR

- Lead a tech team of six engineers and ensured efficiency from individuals.
- Oversaw development of a telemetry server for deployed devices.
- Operated accumulation and distribution of know-how in the form of clear documentation.
- Improved environment setup speeds with containerization via Docker and distribution via AWS ECR.
- Reduced runtime errors and improved consistency across projects by introducing checks on code changes with GitHub Actions.

Leadership Docker GitHub Actions AWS

Machine Learning Engineer

Novit.AI

Mar 2022 - Oct 2023

Ankara, TR

- Refactored and maintained a legacy embedded AI camera system that is deployed on Jetsons.
- Owned responsibility for reverse SSH and VPN servers for deployed devices and CVAT servers for annotation purposes.
- Investigated, figured out, and documented how to use the Team Awareness Kit (TAK) interface.
- Maintained and debugged a legacy data extraction pipeline that uses an undocumented third party API.
- Constructed projects to convert image segmentation results into more usable formats.
- Helped renovate the company website.

PyTorch Web scraping React / Vue Legacy codebase enjoyer

Research Assistant

METU Heart Research Laboratory

Oct 2020 - Mar 2022

Ankara, TR

- Worked with my thesis advisor on TUBITAK funded projects:
 - Application of Bayesian Estimation Methods to Electrocardiographic Imaging: Prior Model Selection and Reduction of Noise Effects
 - Performance Evaluation of Noninvasive Electrocardiographic Imaging for the Localization of Premature Ventricular Contractions from Clinical Data

MATLAB Digital signal processing

Machine Learning Engineer Intern

Darkblue Telecommunications

Summer 2019

Ankara, TR

- Trained a road detecting model with CNNs and tested it on videos from a drone.

Electronics Engineer Intern

AirCar Corp

Summer 2019

Istanbul, TR

- Ensured the safety of electronic components and researched battery management systems.

Electrical Engineer Intern

ELTEMTEK

Summer 2018

Ankara, TR

- Designed and modeled new electric distribution networks for several districts in Turkey.

Education

Master of Science in Electrical - Electronics Engineering

Middle East Technical University

2020 - 2023

Ankara, TR

- Thesis: Geometric model error reduction in inverse problem of electrocardiography
- Course: CENG501 Deep Learning
- CGPA: 3.11/4.00

Bachelors of Science in Electrical - Electronics Engineering

Middle East Technical University

2016 - 2020

Ankara, TR

- CGPA: 3.53/4.00

Publications

Aldemir, F., & Dogrusoz, Y. S. (2021). Compensation of Model Errors in Electrocardiographic Imaging Using Bayesian Estimation. 2021 Computing in Cardiology (Cinc), 48, 1–4. <https://ieeexplore.ieee.org/abstract/document/9662933>

Other

Languages German (Beginner) | Spanish (Beginner) | Music (Wants to begin)

Interests Songwriting | Reading | Playing soccer