Abdullah Enes Oncu

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WHO AM I?

I am a multiple-time winner of International programming competitions with top skills in **Algorithms and Data Structures**. I hold a degree from **Boğaziçi University** in **computer engineering and mathematics double major**. I have great skills in writing fast efficient and bug-free code. Interested in algorithms and data structures, solving complex software engineering problems. Have good knowledge of **C/C++, Python, SQL** programming languages, **opencv, pytorch, and ffmpeg**. Experience with **Computer Vision, Video Transmission and Display, Augmented Reality**. Implemented projects with **Django, ReactJS, React-Native, PyTorch**. Currently working as a full-stack engineer.

EDUCATION

September 2015 - January 2021 | **Bachelor of Computer Science, Double Major with Mathematics**, *Bogazici University*, Istanbul
3rd place in Computer Science

EXPERIENCE

Jun 2018 - Aug 2018 | **Summer Intern**, *OFISIMCOM Information Technologies*, Istanbul
○ `https://www.ofisim.com/`

Jun 2019 - Feb 2021 | **Software Engineer**, *BAYKAR DEFENSE*, Istanbul
○ `https://www.baykarsavunma.com/`

Mar 2021 - Jun 2022 | **Full Stack Software Engineer**, *PALAMAR TECHNOLOGIES*, Istanbul
○ `https://palamartech.com/`

July 2022 - Present | **Contract Software Engineer**, *ARISTA NETWORKS*, Dublin
○ `https://arista.com/`

PROJECTS

React-Native Project | Implemented a route planning and check-in project using React-Native. Integrated the module into the existing mobile app of OfisimCom. The module allows users to select customers and plan routes using Google Maps APIs. Screenshots can be accessed at: `https://github.com/abdullahenesoncu/PrimeAppsRoutePlanningScreenshots`

React Project | Contributed to the frontend (web) development of a language learning platform. Screenshots can be accessed at: `https://github.com/bounswe/bounswe2019group5/tree/master/screenshots/web`

Robot Learning Project | Trained Conditional Neural Movement Primitives and Adaptive Conditional Neural Movement Primitives models using PyTorch and Keras for human walking data. More details available at: `https://www.cmpe.boun.edu.tr/content/training-walking-data-cnmp-and-acnmp`

Augmented Reality | Calibrated a fish-eye camera on UAVs and drew significant contexts (e.g., runway, taxi path) on the camera frame using mathematical techniques.

FFmpeg Video Player	Developed a media player using the FFmpeg-libav library, enabling video playback from streams and supporting precise seeking on video files. The project involved multi-threading programming.
Document Data Extraction Framework	Worked on a framework for extracting text, form, and table data from PDFs and other document types. Implemented the frontend using ReactJS, backend using Django, and utilized Python machine learning libraries and C++ for adhoc methods. Trained various neural network models, including a character segmentation model, to aid in data extraction from documents.

TECHNOLOGY SKILLS

Programming Languages	C, C++, C, Java, Matlab, SQL
Scripting Languages	Python, JavaScript
Technologies	ReactJS, React-Native, PyTorch, Keras, Nginx, Docker
Libraries	Libav (FFmpeg), OpenCV, Scikit
Software Engineering	Data Structures, Algorithms, Competitive Programming, Video Transmission and Display, Augmented Reality

ACTIVITIES AND INTERESTS

Judge and problem setter in Turkish National Olympiads in Informatics.

Participating in online programming competitions (Codeforces: enesoncu, Topcoder: enesoncu, HackerRank: enesoncu).

Problem setter on Hackerrank.com.

LANGUAGES

Turkish and English

ACHIEVEMENTS AND AWARDS

ACM ICPC SEERC	18th place, 2015; 35th place, 2018
International Olympiad in Informatics	Bronze Medal, Taipei, Taiwan, 2014; Silver Medal, Almaty, Kazakhstan, 2015 `https://stats.ioinformatics.org/people/5227`
Balkan Olympiad in Informatics	Gold Medal, Ankara, Turkey, 2014; Silver Medal, Ruse, Bulgaria, 2015
Asia-Pacific Informatics Olympiads	Bronze Medal, Kazakhstan, 2014; Silver Medal, Indonesia, 2015
Turkish National Olympiad in Informatics	Bronze Medal, 2012; Gold Medal, 2013; Gold Medal, 2014