

Keremalp Durdabak

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EXPERIENCE

OceanSync, CA — Data Analyst Intern

September 5, 2023 – December 22, 2023

→ Scikit-Learn, TensorFlow, Python

- Developed a granular weather condition prediction system for marine vessels by utilizing supervised models such as Random Forest and k-NN, encompassing data preprocessing, feature engineering, and statistical analysis.
- Employed unsupervised models, particularly autoencoders, to extract new features by utilizing the latent space representations, to derive higher correlated features.

OpenText, CA — Research Internship

January 10, 2023 – April 4, 2024

→ Python and Ad-Hoc Machine Learning Libraries

- The objective of this research internship is to explore to what degree machine learning algorithms can be used for streaming data and insider threat detection to provide useful information for the Threat Hunting (SOC) team.
- Developed unsupervised learning models such as autoencoders using time series data for insider threat detection systems.

DSI, Izmir, TR — Software Engineer Intern

June 1, 2021 – September 18, 2021

→ GeoServer, React Native, JavaScript, PostgreSQL

- Developed a Geographical Information System interface using Leaflet and GeoServer that dynamically visualizes time series data of water canals and dams across the country.
- Implemented a closed network mobile application built with React Native that displays DSI's important structures and facilities in a map and keeps employees up to date with the current events of the organization.
- Worked closely with the Geographic Information Systems department to establish PostgreSQL and IIS connections while gaining technical knowledge about creating API endpoints using Code First approach.

Programming Languages

Python
JavaScript
Java
C++
HTML
CSS

Frameworks/ Libraries

TensorFlow
Scikit-Learn
ReactJS
React Native
NodeJS
PostgreSQL

Software Tools

Git
GitHub
Heroku
Jupyter Notebook
GeoServer

EDUCATION

Dalhousie University, Halifax, NS, Canada — *1st Year Graduate Student (Current GPA: 4.30/4.30)*

September 2022 – June 2024

- Master of Computer Science (MCS)
- NIMS Lab Member

Yasar University, Izmir, TR — *Graduated*

October 2018 – June 2022

- Bachelors in software engineering
- Full Scholarship
- Graduated as 2nd with 3.71/4.00 GPA from the faculty

PROJECTS

Marine Vessel Tracker — *Computer Vision*

→ YOLOv7, OpenCV, COCO Image Library

- Utilized state of the art YOLOv7 computer vision library to implement an object detection model that detects Marine Vessels on an image.
- Utilized Vessel images that are taken from COCO image library to train the model.

Hoopi — *Learning Platform*

→ Next.js, Django, PostgreSQL

- Led and developed a peer-to-peer video call platform built with Next.js for learning about a particular subject from experts all over the world.
- Collaborated with a team of 5 developers to build the platform from the ground up and gained experience in leadership and project management in the process.

AWARDS

CyberSci 2023 — *Atlantic Regional 2nd Place, National 10th Place*

→ Cybersecurity Competition

- Achieved 2nd place in the CyberSci Atlantic Regionals as part of team Meltdown, competing against participants from 35 universities across Canada.

CyberSci 2022 — *Atlantic Regional 1st Place, National 4th Place*

→ Cybersecurity Competition

- Secured 1st place in CyberSci Atlantic Regionals and 4th nationally with team Singularity, against participants from 35 universities across Canada.

Certificates

Coursera – Machine Learning Specialization

Amazon – AWS Certified Cloud Practitioner

Clubs/Organizations

Google DSC – Founder

IEEE – Member

Network Information Management and Security Group (NIMS Lab) - Member