

# Keremalp Durdabak

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Linkedin | Github | Personal Website

## 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**

September 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 — *1<sup>st</sup> 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 2<sup>nd</sup> with 3.71/4.00 GPA from the faculty

## PROJECTS

### **Marine Vessel Tracker** — *Computer Vision*

→ YOLOv7, OpenCV, CNN

- 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 2<sup>nd</sup> 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 1<sup>st</sup> 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