



# HAKAN ERGIN

JUNIOR AI/ML  
DEVELOPER

**PYTHON** Pandas  
Numpy  
Scikit-Learn  
Pytorch/Tensorflow  
FlaskAPI  
OpenCV

**JAVASCRIPT** Typescript  
React.js / native  
Node.js  
GraphQL / Apollo

**DATABASES** MongoDB  
SQL  
Neo4j

**OTHERS** CLI - Linux  
Docker  
Google Cloud  
Git - Github  
ROS

**EDUCATION** High-school graduate

**CERTIFICATES** 3D modeling  
3D animation

**LANGUAGES** Turkish (Native)  
English (Professional)  
French (Basic)  
Spanish (Basic)  
Italian (Basic)

## CONTACT

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## Summary

In 2019 I started learning programming. Two bootcamps, two internships and many little programs later; as I am completing my internship based on computer vision and machine learning at a robotics startup, I am looking for a well-suited position to invest my efforts in and dig deeper into these fascinating fields.

## Applied IT experience

### INTERNSHIP @ uWare Robotics

*Computer vision and Machine learning | 2022 (3 mo. - ongoing)*

#### Machine learning/Deep learning

Improving existing image classification model by image enhancement techniques.

Implementing convolutional neural networks by taking advantage of transfer learning and comparing their results with existing machine learning model.

#### Computer vision

Working with the fiducial marker library Apriltags in purpose of assessing its usability for verifying the IMU sensor errors of underwater autonomous vehicle.

Research: In-depth analysis of the library and its implementations, the papers released by the authors and other papers that used and compare similar techniques. Study of pose estimation and frame translations.

Application: Creating a test pipeline using ROS for further benchmarking the system based on our certain requirements; such as ability to detect Apriltags at target speed, distances and angles, as well as the accuracy in estimations.

Realization: Recording measured videos and running them through the test pipeline to create data sets. Analyzing and visualizing results.

### BOOTCAMP @ BeCode

*Artificial Intelligence / Data Science | 2021 (7 mo.)*

**Data** - Web scraping, data analysis, preprocessing and visualization.

**Machine Learning** - Prediction algorithms and procedures *i.e.* regression, classification, model evaluation.

**Deep Learning**: Natural Language Processing, Computer Vision and Neural networks.

### PROJECT @ Bike Theft Tracker

*Personal project with community value | 2020 (5 mo.)*

Developed and released my first real-life application on Android. And deployed onto Google Play Store.

### INTERNSHIP @ Speech Act Services

*Mobile Application Development | 2020 (5 mo.)*

Developing a full-stack mobile application under the supervision of a senior developer while taking responsibility in every aspect of the project, from design to planning and developing.

### BOOTCAMP @ HackYourFuture

*Web Development and Programming Basics | 2019 (7 mo.)*

Fundamental training on HTML, CSS, JavaScript (NodeJS, ReactJS), Databases

## Other

### TECHNICIAN @ Telenia SRL.

*Display technologies technician | 2016 (6 mo.)*

### ASSISTANT MANAGER / FRONT DESK @ Hush Hostels

*Co-management and customer services | 2015 (1.5 yrs.)*

### SOUND TECHNICIAN @ Acik radio

*Live broadcast technician | 2012 (3 yrs.)*