



# 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

+32 465835109  
hakan.ergin@gmail.com  
hakanErgin  
hakan-ergin  
1060 Saint Gilles, Brussels

## About

In 2019 I started learning programming. Two bootcamps, two internships and many little programs later; today, 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.

## IT experience

### INTERNSHIP @ uWare Robotics

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

#### **Machine learning/Deep learning tasks:**

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 tasks:**

Working with the fiducial marker library Apriltags for assessing and 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 benchmarking the system based on requirements; such as ability to detect Apriltags at target speed, distances and angles, as well as its 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.)*