



# HAKAN ERGIN

SOFTWARE  
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

**CERTIFICATES** Web development  
Machine learning  
3D modeling  
3D animation

**EDUCATION** High-school graduate

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

**NATIONALITY** Turkish  
Italian

## CONTACT

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## Experience in software development

### SOFTWARE DEVELOPER @ Treedy's

*Machine learning and software development | 2022 (May - ongoing)*

**PROJECT:** Improving company product: 3D (RGB-D) Scanner with assistance of Deep Learning for inferring body measurements under garment.

- **Analysis:** Repeatable experiments and creating data.
- **Development:** Designing and developing software for various tasks/projects. Deploying/documenting and maintaining.
- **Computer vision:** Working with rgb-d sensors and point clouds.
- **Project management:** Product breakdown analysis, documentation, kanban boards and other tools for technical project management.
- **General IT tasks:** Setup, maintenance, trouble-shoot and client (another technical team) facing assistance and collaboration.

### INTERNSHIP @ uWare Robotics

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

**PROJECT:** Experiments with fiducial markers (Apriltags) in order to assess and verify positional sensory information coming from underwater autonomous vehicle.

- **R&D** - Analysis of the library and its implementations. Pose estimation and frame translations.
- **Application** - Implementing a testing and benchmarking pipeline using Apriltags & ROS. Aimed at satisfying requirements, ie; ability to detect markers at target speeds, distances and angles, as well as its accuracy in estimations.
- **Analysis** - Validating ideas via measured tests and videos. Analysing/visualising conclusions.
- **Deep learning** - Experimenting with convolutional neural networks.

### BOOTCAMP @ BeCode

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

- **Data** - Web scraping, data analysis, preprocessing and visualization.
- **Machine Learning** - Algorithms, optimization and model evaluation.
- **Deep Learning** - Natural Language Processing, Computer Vision, 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 released onto Google Play Store.

### INTERNSHIP @ Speech Act Services

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

Developing a full-stack mobile application by taking responsibility in every aspect of the project, from planning to deploying.

### BOOTCAMP @ HackYourFuture

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

Foundational programming training with full-stack web technologies: HTML, CSS, JavaScript (NodeJS, ReactJS), Databases

## Other Experience

### TECHNICIAN @ Telenia SRL.

*Various company specific IT tasks | 2016 (1 year)*

### ASSISTANT MANAGER / FRONT DESK @ Hush Hostels

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

### SOUND TECHNICIAN @ Acik radio

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