




# Daan Michielsens


I am excited to start my journey in the real IT world so I can apply the skills I have learned over the past years in the field. I am ready to work with motivated likeminded individuals to achieve the desired result.

## Personal

 Birthday  
22 January 2003

 Beerse, Belgium

 [michielsendaan8@hotmail.com](mailto:michielsendaan8@hotmail.com)

 +32468310514

 [/daan-michielsen/](#)

 [Portfolio](#)

 Drivers license B

## Free time

 Fitness

## Language

Dutch ★★★★★★

English ★★★★★

French ★★★

## Education

○ **Bachelor in Applied Computer Science(AI)**  
Thomas More | Geel  
2020 - 2024

○ **High school degree in Electronics-Electricity**  
VITO | Hoogstraten  
2014 - 2020

## Expertise

- AI, ML, DL
- Python
- HTML, CSS, JS(TS)
- NextJS/React
- SQL
- Java Development
- .NET Development
- Data Egnineering
- PHP(Laravel 9)

## Experience

○ July 2020 - September 2020  
Jumbo | Rijkevorsel  
**Supermarket Employee**

○ March 2020 - April 2020 (Internship)  
Q-Lite | Baarle-Hertog  
**Assembly/Service Employee**



# Internship

**SaaS platform for energy management in apartments**  
iSmart digital | Westerlo  
February 26 2024 - May 24 2024

**Role**  
Full stack web developer



## Projects

**Yellow nutsedge detection application**  
Thomas More | Project 4.0  
3rd year Applied Computer Science

**Role**  
Machine Learning Engineer

**Hornet tracking AI model**  
Thomas More | Artificial intelligence  
3rd year Applied Computer Science

**Role**  
Machine Learning Engineer  
Web developer

**Image classification AI model**  
Thomas More | Big Data  
3rd year Applied Computer Science

**Role**  
Machine Learning Engineer  
Web developer

### Project description

Creating a **SaaS(Subscription as a Service) platform** for apartment owners of apartments that contain sensors to **measure climate, energy, ...** The owners can monitor: usage, status, climate. Users can be added to organizations. The project includes an **API** as well that is available to users with an account

### My contribution

Database schema, CRUD operations, Stripe configuration and payments, API endpoints, ...

### Technologies

- NextJS
- Tailwind (UI)
- Auth0
- Stripe
- Prisma
- Resend
- CosmosDB
- Azure Functions
- ChartJS

### Project description

Creating an application that can **process drone images to detect an invasive weed**. The tool includes **account management, heatmaps, GeoJSON export, ...**

### My contribution

Data processing pipeline, training the AI model and creating a containerized API wrapper for the model using Flask and Python.

### Technologies

- Angular
- Flask
- FastAI
- AWS
  - ECS
  - ECR
  - ...
- Python
- .NET
- Docker
- Postman
- SCRUM

### Project description

Creating an **AI model for tracking Hornets** using scraped data. **Implement the AI model in a web application.**

### My contribution

**Scraping and labeling data. Training a model** using FastAI in Python. Creating a small **Streamlit web application** that **integrates the model** in a user-friendly interface.

### Technologies

- Python
- Google Colab
- Roboflow
- FastAI
- Numpy
- Pandas
- Streamlit
- YoloV5
- Selenium

### Project description

Creating an **AI model that can differentiate 5 similar objects (tomatoes)** better than Google's Teachable Machine using FastAI in Python. **API wrapper** for model as well as **simple web app using Streamlit**.

### My contribution

**Scraping and labeling images** of tomatoes, **training the model using FastAI on Google Colab**. Training a **model in Roboflow**. Training a **model on Google Cloud Platform using Vertex AI** and deploying to an endpoint. Creating a **streamlit application** to test all the models.

### Technologies

- Python
- Google Colab
- Roboflow
- FastAI
- Numpy
- Flask
- Pandas
- Streamlit
- Google Cloud Platform
- Google Teachable Machine