




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

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 [/daan-michielsen/](#)

 [Portfolio](#)

 Drivers license B

Free time

 Fitness

Language

Dutch ★★★★★

English ★★★★★






French ★★★

Education

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


 **High school degree in Electronics-Electricity**
VITO | Hoogstraten
September 2014 - June 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

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

Technologies

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

My contribution

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

Projects

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

Role
Machine Learning Engineer

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

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

Role
Machine Learning Engineer
Web developer

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

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

Role
Machine Learning Engineer
Web developer

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