

# Victor Barra

Victor.Barra@live.be | [victorbarra.dev](https://victorbarra.dev)

## Education

### Bachelor of Applied Computer Science

Sept 2021 - June 2024

Major: Artificial Intelligence

Howest University of Applied Science (Bruges, Belgium)

## Work Experience

### Student software developer, Open Summer of Code (osoc)

July 2024 - July 2024

Brussels, Belgium

- Participated in a 4-week summer program that pairs students with organizations to develop innovative tech solutions.
- Collaborated in a team of 3 to design and develop a prototype app for the company imec, aimed at simplifying the benefits of Solid (Social Linked Data) for users.

### Machine Learning Intern, ML6

February 2024 - May 2024

Ghent, Belgium

- Built an internal Retrieval-Augmented Generation (RAG) solution to help employees quickly find information about the company.
- Focused on the evaluation of RAG to identify and implement improvements for the company's AI solutions.

### Lifeguard

July 2019 - August 2022

Nieuwpoort, Belgium

- Secured a coastline area with a team of 5 lifeguards during the summers, ensuring safety and quick response to emergencies.

## Personal projects

### Movies app: (Nextjs, Python, Tailwind CSS, Docker, Weaviate)

- Developed a Netflix clone with 680+ movies sourced from TMDB.
- Implemented a vector database to efficiently store and retrieve similar movies.

### BirdSnap: (PyTorch, Python, Weight&Biases, Google Cloud Storage)

- Built a CNN model to classify bird species using Kaggle dataset.
- Project to learn/master Pytorch and W&B
- Leveraged Weight & Biases for experiment tracking and model performance optimization.

### SentimentAPI: (Nextjs, Python, Tailwind CSS, Scikit-learn, Huggingface)

- Developed an API that analyzes the sentiment of text and allows users to generate API keys for making requests.
- Implemented DistilBERT from Hugging Face to accurately classify text across multiple emotions.

## Skills

Languages: Python, HTML, CSS, Tailwind CSS, JavaScript, Typescript

Technologies: Nextjs, Node.js, AWS S3, GCP storage, Git, Docker

Databases: MySQL, MongoDB, Firebase, Supabase

Data/AI: Streamlit, TensorFlow, PyTorch, Scikit-learn, Pandas, Matplotlib, NumPy

## Languages

Dutch (native proficiency) - English (professional proficiency) - French (professional proficiency)

## Interests

Books - Golf - Running - Music