

JOEY ANTONISSE

MSc. Computing Science Graduate from Rijksuniversiteit Groningen

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📍 Groningen, Netherlands

in <https://www.linkedin.com/in/joeyantonisse/>

PROFILE

Tech-driven, music-inspired professional with a strong background in AI and Machine Learning. Skilled at driving projects from concept to completion with precision and creativity. Passionate about leveraging technology to solve complex problems and create meaningful impact.

Learn more about my work at: joeyantonisse.nl.

EXPERIENCE

Data Scientist

Sopra Steria

📅 September 2025 – Present 📍 Groningen, Netherlands

- Driving innovative projects at the forefront of AI and Data Science.

AI Engineer

Valtes

📅 Februari 2025 – Aug. 2025 📍 Assen, Netherlands

- Expanding scalable ETL systems for analyzing user actions stored as events, combining multiple sources and extracting simple yet advanced statistics.
- Improving AI Pipeline with content processing to feed the RAG.

Full Stack (AI) Developer

Researchable

📅 March 2024 – 2024 📍 Groningen, Netherlands

- Conducted **User Story Mapping** and finding suitable AI Solutions for customer use cases, in particular **LLM** and **RAG** approaches. Transforming customer needs into AI-assisted company processes.
- Maintain a highly scalable questionnaire system for the Urban Mobility Observatory to collect data on public transport and make the data accessible to researchers via **CKAN**.
- Manage a centralized codebase in **Ruby** with a **NextJS** frontend, all hosted in a cluster orchestrated by **Nomad** from HashiCorp.

Full Stack Developer

Wildsea

📅 April 2021 - July 2023 📍 Groningen, Netherlands

- Realizing fully custom web applications hosted on **Digital Ocean** or **Azure** for a wide range of clients, each with unique challenges. Bringing customers' needs to the forefront and finding the optimal solutions for their problems through use case meetings. Implemented with the **Laravel** framework.
- Support and mentor team members.

EDUCATION

Master Computing Science
Intelligent Systems and Visual Computing

Rijksuniversiteit Groningen

📅 July 2023

Premaster Computing Science
Rijksuniversiteit Groningen

📅 July 2017

Software Engineering
Hanzehogeschool Groningen

📅 July 2016

MSc. Thesis

Rijksuniversiteit Groningen

📅 Sept 2022 - July 2023

- Project: Enhancing CNN-based Classification through Effective Utilization of the COSFIRE Algorithm as a Keypoint-based Feature Detection Step.
- Tools & Technologies: Keras, TensorFlow, Python, MATLAB.
- Improve CNN Classification accuracy using COSFIRE algorithm by utilizing AlexNet-based architecture in **TensorFlow**, parallelising keypoint detection algorithm on grey-scale images on the Peregrine(RUG) cluster and using 3-layer grayscale images to train the model.

MSc. Internship

Rijksuniversiteit Groningen

📅 Oct 2018 - Jan 2019

- Project: Boosting CNN model performance in noisy environments
- Tools & Technologies: Keras, Tensorflow, CORF algorithm, Python, MATLAB.
- Leveraging CORF push-pull inhibition operator to enhance **Convolutional Neural Network** robustness against noise Description: Implemented a transformation step using the CORF push-pull inhibition operator, resulting in improved classification accuracy on noisy images compared to standard models.

- Working with Azure, MySQL, Docker, Laravel, DigitalOcean.

Full Stack Developer

Parkos

📅 2018 - 2021

📍 Groningen, Netherlands

- Full Stack Software Engineer working with Laravel on in-house product, specialized in web-scraping.
- Working with a headless browser cluster, Selenium Grid, concurrently working and retrieving data, sending data from 40+ nodes to a centralized system, giving a perfect overview of competitors pricing in a single dashboard.
- Google Cloud Platform

Full Stack Developer

Beeproger

📅 2016 - 2018

📍 Groningen, Netherlands

- Bringing application from the designer to the customer. Developing web application for Maritime Zone with Laravel and Blade.

SKILLS

Programming languages

- Python, MATLAB, Laravel (PHP), C++, MySQL

Machine Learning & AI Frameworks

- TensorFlow, PyTorch, Scikit-Learn, Keras, NumPy, Pandas, OpenCV

Orchestration & Cluster Management

- Nomad

Cloud-Based Technologies

- AWS, Azure, Digital Ocean, Docker, DataBricks

Tools & Technologies

- Tableau, Apache Superset, Git, MySQL, MongoDB, Linux, LaTeX, Jetbrains, Scrum (Agile), Jira, Confluence

INTERPERSONAL SKILLS

- **Communication Skills:** Effective at conveying ideas and information.
- **Problem-Solving:** Focused on solving problems with practical solutions.
- **Critical Thinking:** Makes well-informed decisions through evaluations of different scenarios and situations.
- **Leadership:** Demonstrates the ability to guide and motivate colleagues.

PUBLICATIONS

On Improving Generalization of CNN-Based Image Classification with Delinement Maps Using the CORF Push-Pull Inhibition Operator

Proposed a transformation step using CORF push-pull inhibition to enhance CNN robustness against noise, achieving superior performance on noisy images compared to conventional models, evaluated on Fashion MNIST with AlexNet.

springer.com/chapter/10.1007/978-3-030-89128-2_42

BASIC INFO

Languages

- Native: Dutch fluent: English

Drivers License

- Category B

HOBBIES AND INTERESTS

- **Piano:** Passionate pianist from when I was 15 years old, extensive experience in classical music, including works by Beethoven, Chopin and Rachmaninoff. Former member of an orchestra, contributing to the ensemble performance. I enjoy using music as both a creative outlet and personal growth.
- **Social Activities:** Enjoy connecting with others through various social events.
- **Watching Movies:** I watch a diverse range of movies with a love for Sci-fi.
- **Sports:** I enjoy going to the gym to counter the desk-job.