



Filip-Mihai Muntean

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CONTACT

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ABOUT ME

I'm a motivated second-year Master's student in Artificial Intelligence with a passion for NLP and large language models. My role as a Research Assistant at Vrije Universiteit Amsterdam, where I streamlined submission processes and developed scalable solutions, has honed my technical and problem-solving skills. My previous experience as a Teaching Assistant has also strengthened my academic capabilities and instructional skills. I aim to leverage my expertise as well as my teaching capabilities to contribute to academia and advance research in artificial intelligence.

WORK EXPERIENCE

01/10/2024 – CURRENT

Digital Architect Intern - Signify

- Automating the **detection of potential threats** to the **IP** of certain products
- Creating scripts and **automating workflows** to **identify, report, and mitigate** risks

01/01/2024 – 17/11/2024

Research Assistant - Vrije Universiteit Amsterdam

Project 1:

- Developed a Django-based UI to **streamline the submission** process for [CEUR-WS](#) proceedings. This drastically **reduced the submission time**, eliminating the previous manual method.
- Designed and implemented the automated submission system that **reduced the submission processing time** by 50%.
- Developed a **scalable solution** to automate the submission process on with the CEUR-WS website which currently hosts **3,677** volumes.
- Minimized human error by **automating data validation**, resulting in a higher accuracy rate of submissions.
- Developed a second UI leveraging the OpenReview API to scrape data from the platform and **cross-check user submissions**.

Project 2:

- I am developing the **front end** for the Rolo-tutor project, a **chatbot-based educational tool**, using React.
- My tasks involve:
 - Integrate **Microsoft OAuth 2.0 authentication** to enforce user authentication before accessing the chatbot.
 - Implement a user-friendly interface to support **dynamic interactions**, including **feedback** modal forms.
 - Create a **dashboard** for developers to visualize **student feedback**.

01/09/2022 – 01/01/2024

Teaching Assistant - Vrije Universiteit Amsterdam

Courses: Computer Programming, Computational Thinking for Coders, Introduction to Python Programming, Web Technology, Information Management for CS, Programming for Economists, Project Collective Intelligence, Fundamentals of Adaptive Software

- Customized** lab sessions based on student **needs** and **learning styles**, using Kahoots, Mentis (*interactive learning*), and mini-lectures to enhance student engagement and understanding (*targeted knowledge delivery*).
- Consistently received **positive feedback** from students who felt they learned valuable skills, contributing to their overall satisfaction with the course.
- Developed** and **maintained** course materials, including slides, Kahoots, Menti's, and Jupyter Notebooks, to support effective teaching and learning.
- Addressed challenges by **simplifying complex concepts** for novice programmers, confidently leading classes of **up to 30 students**, and providing **prompt, constructive** feedback on assignments.
- Recognized for being flexible and firm with students, ensuring a **supportive learning environment** while maintaining high standards in **grading** and **behavior**.

01/02/2022 – 21/02/2023

External Relations Commissioner - Study Association STORM

- Conducted **market research** and secured new sponsors, leading to a 700% increase in sponsorship revenue.
- Organized events such as workshops, with an increased attendance of 35%, and a Career Fair, which had **250** attendees.
- Implemented **marketing campaigns** across email, Instagram, Facebook, and Canvas, resulting in a **50%** boost in social media engagement.

- Established partnerships with companies like **Uber**, **KPN**, **Adyen**, and others to foster long-term collaboration.
- Successfully led the **annual Career Fair**, managing **event logistics** and **negotiating partnerships** with top-tier companies.

EDUCATION AND TRAINING

01/08/2023 – CURRENT Amsterdam, Netherlands

Master's degree - Artificial Intelligence Vrije Universiteit Amsterdam

Website <https://vu.nl/nl>

01/09/2019 – 01/08/2023 Amsterdam, Netherlands

Bachelor's degree - Computer Science Vrije Universiteit Amsterdam

Throughout my coursework and hands-on experience, I have gained proficiency in a range of areas, including:

1. Operating Systems
2. Software Design
3. Data Structures and Algorithms
4. Machine Learning
5. Applied Logic

Additionally, I have completed a minor in Data Science, which has allowed me to develop skills in:

1. Data visualisation
2. Data analysis
3. Statistical modelling

I have applied these skills to various projects, including analysing large datasets and building predictive models to make informed decisions.

Address De Boelelaan 1105, 1081 HV, Amsterdam, Netherlands | **Website** <https://vu.nl/nl>

THESIS

Transformers for NLP

- **Full Title:** Investigating the Impact of Recurrent Connections on Pre-Trained Transformer-based Models for Modeling Long-Range Dependencies in Sequential Tasks

For my thesis, I have built a transformer generator model. As a general overview, I had to replicate the autoregressive transformer model from scratch, based on [this article](#). The transformer was built in Python, using the library PyTorch. My main task was to investigate the impact and tradeoffs of including a recurrent layer (GRU) in a pure self-attention architecture. I have analyzed the possible impact of the inclusion of this layer into the generated output as well as the performance of the model.

RELEVANT SKILLS

Coding Skills

- **Web Development:** HTML, CSS, JavaScript, Node.js, Django
- **Machine Learning:** Python, Pytorch
- **Programming Languages:** C, C++, Scala, Java
- **Database Management:** MySQL, SQLite3
- **Software Frameworks:** Docker
- **Data Analysis & Visualization:** Tableau

LANGUAGE SKILLS

Mother Tongue

Romanian

Foreign Languages

French - C2
English - C2
Spanish - B2

VOLUNTEERING

01/10/2019 – 01/02/2022 De Boelelaan 1081

Study Association STORM

1. Part of the marketing and promotion team
2. Co-chair of HoReCa Committee
3. Secretary and member social activities team, organising sports & social activities

30/10/2021 – 30/10/2021

Benelux Algorithm Programming Competition 2021

- **Logistics & Event Operations Support:** Played a crucial role in setting up the coding environment for participants, ensuring a smooth and organized competition. Assisted with logistical tasks, including moving fridges and beverages, and aiding with event scheduling to facilitate a successful competition experience for all participants.