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Pepijn van Wijk

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EDUCATION

Master Machine Learning
University of Amsterdam

2024 - 2027 (predicted)

The Machine Learning master at the UvA normally takes two years, however I decided to take my time and do it in three years in order to do some semi-long-term traveling in between.

Minor electrical engineering
Korea University

2023 - 2024

At the UvA I got the chance to take a minor at Korea University in Seoul, South Korea. The majority of my courses were in the electrical engineering field: 'Asic Design', 'Introduction to Electrical Engineering', 'Electronic Circuits' and 'General Robotics'. Besides these technical courses I also took an 'Understanding East Asian Civilization' course in order to fulfill my historical and anthropological interests.

GPA: 9.3 / 10

bachelor computer science
University of Amsterdam

2021 - 2024

GPA: 8.2 / 10

CalandLyceum VWO Technasium
CalandLyceum Amsterdam

2013 - 2019

N&T profile, more focus on applied sciences such as chemistry and physics. In addition to this I took a six year long Technasium course. In Technasium you perform three projects per year for different companies and government agencies such as Yakult, Intralox, Artis and Gemeente Amsterdam. During these projects you learn leadership, co-operating, designing, researching, and much more.

WORK EXPERIENCE

Full stack developer
Kexxu Robotics

mar 2023 - present
Amsterdam

- Worked on an AI pick and place robot used in cup cleaning factories. My main responsibilities were the programming of the delta robot system and creating the AI vision system which commands the robot.
- Architect of a multi modal data lake system for the Kexxu Cloud Editor. Easily scalable, this data lake supports (semantic) similarity search of entire videos, documents, faces and more. Used by, among others, podcasters, documentary makers and charities.
- Lead developer of WallEye, an AI edge device utilizing heat cameras and object detection to count people passing by. WallEye has been in use in multiple countries across various branches of a marketing company.

Freelancer
Temper & independent

okt 2021 - mar 2023
Amsterdam

- Diverse jobs at different companies from retail to coding.
- Learning quickly; Independence.
- Comfortable in different environments.

Technical specialist customer service
Nutsgroep

sep 2019 - mar 2020 & aug 2020 - jun 2021
Amsterdam

- Started off as a customer service agent in the telecom sector solving TV, Phone & internet problems.
- Later became technical specialist for defect phone lines, responsible for direct contact with supplier & backoffice tasks.
- Customer service; Leadership; Co-operating.

IT support
Uwcomputerstudent

jan 2019 - jun 2019
Amsterdam

- Solving computer- and related IT problems for customers at home.
- Problem analysis; Planning.

PROJECTS

Bluetooth triangulator
End project first year computer science bachelor

June 2022

- A Bluetooth location triangulator using ESP-32 micro controllers
- Gained more C++ experience & learned ReactJS and TypeScript
- [Github link](#)

Gym visualizer
Personal project

July 2022

- A webapp that visualizes what muscles different gym exercises focus on. 1000+ exercises are supported and three different view modes are available.
- Gained more ReactJS and TypeScript experience
- [Github link](#)
- [Host link](#)

Wikiscanner
Personal project

November 2022

- A program that allows you to scrape all anonymous edits of Wikipedia pages and gain information about these IP addresses such as location, organization and more.
- Gained more experience in working with APIs, SQL and working with data.
- [Github link](#)

AI twitter bot
Personal project

November 2022

- A twitter bot that tweets out AI generated facts. I trained a GPT-2 model on about 800,000 facts scraped from various twitter accounts.
- First experience with AI & deeplearning. More API experience.
- [Github link](#)
- [Host link](#)

AmIONGoogle
Personal project

April 2023

- A tool that checks if your face is on Google Images using random projection hashing.
- Uses DeepFace for facial recognition, SerpAPI to obtain images from Google and a custom written random projection hashing algorithm for similarity search.
- [Github link](#)

SiriVisionGPT

May 2023

Personal project

- Combining YOLOv8, Whisper and ChatGPT to talk to ChatGPT, who is also able to parse real time video using your camera.
- [Github link](#)

SpotMyMood

June 2023

End project second year bachelors

- A Spotify mood analysis tool with recommendation features.
- Uses a custom build neural network that returns what moods a song corresponds with.
- Uses Qdrant as a vector database to implement a playlist recommendation system based on a specific song, album or your mood (via played songs) over a period of time.
- Uses InfluxDB and Grafana to visualize listening history and moods over time.
- [Github link](#)

SKILLS

Programming	Python, JavaScript, TypeScript, ReactJS, NodeJS, Git, SQL, Docker, MQTT, InfluxDB, Grafana, Go, L ^A T _E X
Design	Adobe Photoshop, SketchUp
Communication	Dutch, English
Workplace	Co-operating, Planning, Problem analysis, quick learning