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Pepijn van Wijk

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EDUCATION

Minor electrical engineering   2023 - 2024
Korea University

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   2021 - 2024 (predicted)
University of Amsterdam

GPA: 8.1 / 10

CalandLyceum VWO Technasium   2013 - 2019
CalandLyceum Amsterdam

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   mar 2023 - present
Kexxu Robotics   *Amsterdam*

- Architect of a vector database system for the Kexxu Cloud Editor. Easily scalable, this database 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.
- Working with a diverse variation of technologies such as Docker, MQTT protocol and AWS.
- Experience in various deep learning fields such as training & finetuning models, different frameworks, vector databases and creating datasets.

Freelancer   okt 2021 - mar 2023
Temper & independent   *Amsterdam*

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

Technical specialist customer service   sep 2019 - mar 2020 & aug 2020 - jun 2021
Nutsgroep   *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   **jan 2019 - jun 2019**
Uwcomputerstudent   *Amsterdam*

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

PROJECTS

Bluetooth triangulator   **June 2022**
End project first year computer science bachelor

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

Gym visualizer   **July 2022**
Personal project

- 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   **November 2022**
Personal project

- 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   **November 2022**
Personal project

- 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   **April 2023**
Personal project

- 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, LaTeX
Design	Adobe Photoshop, SketchUp
Communication	Dutch, English
Workplace	Co-operating, Planning, Problem analysis, quick learning