

# Paul Pham

MACHINE LEARNING ENGINEER AT UMC UTRECHT

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## Summary

Machine Learning Engineer focused on Deep Learning for Pathology. With my background in AI, Data Engineering and Software Engineering at various companies, I have a good impression of what it takes to make a great product.

## Work Experience

### UMC Utrecht

Utrecht, The Netherlands

MACHINE LEARNING ENGINEER AT THE PATHOLOGY DEPARTMENT

Feb. 2022 - Present

- Designed and implemented a production-ready Machine Learning product for Mitosis Detection on histopathology images.
- Collaborated with various companies on AI-integration in the department.
- Used technologies: Ray Serve, Python, PyTorch, Tensorflow, High Performance Cluster (HPC), Flask

### UMC Utrecht

Utrecht, The Netherlands

AI GRADUATE INTERN AT THE PATHOLOGY DEPARTMENT

Apr. 2021 - Dec. 2021

- Worked on Deep Learning models which classify Digital Pathology Images for Breast Cancer Grade Classification, Metastases Detection in Lymph Nodes of Breast Cancer Patients and Melanoma subtype Classification
- Used technologies: Python, PyTorch, PyTorch Lightning

### Vanderlande Industries

Veghel, The Netherlands

BACHELOR GRADUATE INTERN & WORKING STUDENT

Feb. 2019 - Aug. 2019

- Developed a *proof-of-concept* for Monitoring and Alerting of microservices with Data Streaming Architectures
- Used technologies: Java, Docker, Kubernetes, Apache Kafka, ELK stack, Prometheus, Grafana

### DAF Trucks

Eindhoven, The Netherlands

BACHELOR INTERN

Aug. 2017 - Jan. 2018

- Rewrote and improved a Data Engineering solution for the durability of trucks based on their trips
- Used technologies: C#, PostgreSQL, PostGIS

## Education

### TU/e (Eindhoven University of Technology)

Eindhoven, The Netherlands

MSc COMPUTER SCIENCE AND ENGINEERING

Sep. 2019 - Dec. 2021

- Relevant coursework: Deep Learning, Data Engineering, Computer Vision, Data Visualization, Philosophy & Ethics of AI

### Fontys University of Applied Sciences

Eindhoven, The Netherlands

BSc SOFTWARE ENGINEERING

Sep. 2015 - Jun. 2019

- Relevant coursework: Software Engineering, Databases, Web Applications, Microservices

## Extracurricular Activity

### ATeam Eindhoven (Student Team)

Eindhoven, The Netherlands

SOFTWARE DEVELOPER

Apr. 2017 - Oct. 2018

- Developed software for the Human Machine Interface (HMI) of a self-driving car, which consisted of the car dashboard and light indication for pedestrian detection

## Languages

Dutch (native) and English (professional working proficiency)

## Interests

Nature, health and sports (climbing, tennis and padel)