

# MAX OPPERMAN

## Graduate Computer Science and Engineering at TU/e

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MaxOpperman

Eindhoven, Netherlands  
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## EXPERIENCE

### Software Engineer

#### Prodrive Technologies

November 2021 – April 2024

- At Prodrive Technologies, I developed a management system for deploying AI models using Django (Python), JavaScript, React (TypeScript), and Material UI. These models analyze specific regions of interest to detect product defects. Additionally, contributed to building a system for labeling these regions to improve model accuracy.

### Secretary

#### Study Association GEWIS

July 2020 – July 2021

- GEWIS is the study association of the Mathematics and Computer Science department of the TU/e.
- As the Secretary, I had contact with plenty of organizations. I gained much experience with communication with both external parties and within a small team.

### Software Engineer

#### TU/ecomotive

April 2019 – September 2020

- As a member of TU/ecomotive's sixth team, I contributed to Luca; a car primarily made from waste materials. Working in a multi-disciplinary team, I developed a strong understanding of cross-functional collaboration to maximize results.
- As a Software Engineer, I gained hands-on experience in programming embedded systems.

## PROJECTS

### Permutations by Neighbor-Swaps

#### TU/e Master Thesis

February 2024 - December 2024

- For my Master's Graduation Project I have proven that one can generate all permutations of a certain string by only using swaps of adjacent elements. Doing this without duplicate permutations is impossible in some cases. In my thesis, I resolved a conjectured relaxation of this problem that had remained open since 1965.
- I was awarded a 9/10 for my thesis.

### Dashboard for Building Sensors

#### TU/e Department of the Built Environment

September 2021 - November 2021

- For my Bachelor's degree final project, I developed a Smart Building Dashboard designed to provide users with insights into building and sensor data.
- Through this project, I gained experience working with the Django REST API and Vue frameworks.

### Parelpracht

#### Study Association GEWIS

December 2020 - September 2021

- During my year as the Secretary of GEWIS, I helped develop a new Customer Relationship Management system. The system automates repetitive tasks and provides insights into collaborations.
- Through the development of Parelpracht, I gained extensive experience programming in TypeScript using Semantic UI, React, and Redux.

## MY LIFE PHILOSOPHY

*"I am always eager to find the solution and help out. With my work, I hope to contribute to society and improve people's lives."*

## EDUCATION

### Master Computer Science and Engineering

#### Eindhoven University of Technology

February 2022 – December 2024

### Bachelor Computer Science and Engineering

#### Eindhoven University of Technology

September 2017 – November 2021

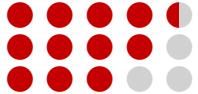
## LANGUAGES

Dutch



English

Python  
TypeScript  
Java



## CERTIFICATES & LICENCES

Erasmus Exchange - University of Bolgona  
February 2023 – July 2023

Cambridge Certificate in Advanced English  
March 2017 - CEFR Level C1 English

## STRENGTHS

Dedication      Eye for detail      Oversight  
Hard-working      Helpful      Listening Ear  
Organized

## INTERESTS

Hockey      Bouldering      Sailing