

# JOHANNES HOLMGREN

Computer Science and Engineering Student at Chalmers University of Technology

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## EDUCATION

### MSc - Complex Adaptive Systems

Chalmers University of Technology

📅 Aug 2023 – ongoing

📍 Gothenburg, Sweden

- Exchange studies: National University of Singapore, spring semester 2024.

### BSc - Computer Science and Engineering

Chalmers University of Technology

📅 Aug 2020 – Jun 2023

📍 Gothenburg, Sweden

- GPA: 4.6/5.0
- During my bachelor I was part of the Committee of Sports and the Committee of Career and Business Relations, managing everything from weekly sport sessions to large company events where I actively represented the division.

## WORK EXPERIENCE

### Teaching Assistant

Chalmers University of Technology

📅 Aug 2022 – Nov 2023

📍 Gothenburg, Sweden

- I supervised over 300 students in a course covering **assembly programming**, boolean algebra and fundamental **computer architecture**.
- As a supervisor in a project course, I guided three groups in project management, while simultaneously assisting with programming in C and version control using **git** and **Github**.

### Engineer Intern

Volvo Group

📅 Jun 2023 – Aug 2023

📍 Gothenburg, Sweden

- I assisted with the work towards a more modern way to manage technical requirements.
- My main task was to dive deeper into a specific requirement management tool, as well as the team's requirements and see how they can merge these.
- During my work I represented the team in internal Volvo meetings where the tool has been discussed.

### Substitute Teacher

Partille kommun

📅 Jan 2020 – Jun 2020

📍 Partille, Sweden

- I had full responsibility for planning and carrying out lectures for 60+ seventh-graders in both science and mathematics, improving my skill of speaking to an audience.

### Tekniksprången Internship

Volvo Cars

📅 Aug 2019 – Dec 2019

📍 Borås, Sweden

- During the fall of 2019 I was part of an **agile** team involved in the testing of built-in **active safety systems** in cars, as well as modelling a prototype for automation of the testing using **Python**.

## ABOUT ME

As a soon-to-be engineer within Computer Science and Engineering, the interest for data science has really grown for me. I am now looking for a job where I can continue to enhance my software skills and gain experience, and where I can use my knowledge to build something that really makes a difference.

## LANGUAGES

Swedish  
English

Native  
Fluent

## TECHNICAL SKILLS

Python

Java

C

C++

Git, GitHub

HTML

CSS

Linux

Pandas

Numpy

Matplotlib

Matlab

## PROJECTS

### Neural Network

Python, Numpy

- To gain deeper insight in how neural networks operate, I built a small neural network package from scratch using **Python** and **Numpy**.
- The network trains using backpropagation, and supports an arbitrary number of layers with different activation functions.

### Maze Visualizer

Python

- This program was developed to visualize and make it easier to understand the difference between how different algorithms proceed to solve a maze.
- A course in algorithms and data structures was the basis of the program, which uses various well-known algorithms for both the creation and solving of the maze. Optimization was a core part of the development in order to make the program perform well on larger mazes.

### Personal Website

HTML, CSS, JS

- Feel free to check out my personal website: a digital version of my resume!
- You can find it at <https://holmgren.dev>