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
- **Q** 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

🛗 Aug 2022 - Nov 2023

Chalmers University of Technology

- **Q** 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

🛗 Aug 2019 - Dec 2019

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.

Tekniksprånget Internship

Volvo Cars

Borås, Sweden

• During the fall of 2019 I was part of an agile team involved in the testing of ADAS in cars, as well as modelling a prototype for automation of the testing using Python.

LANGUAGES

Swedish	Native
English	Fluent

TECHNICAL SKILLS



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

Pvthon

- 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

% https://holmgren.dev