

# CV - JOHANNES HOLMGREN

Computer Science and Engineering Student at Chalmers University of Technology

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📍 Göteborg, Sverige



## EDUCATION

### Computer Science and Engineering

Chalmers University of Technology

📅 Aug 2020 – ongoing

📍 Gothenburg, Sweden

- GPA: 4.6/5.0

### Natural Science Program

Göteborgs högre samskola

📅 2016-2019

📍 Gothenburg, Sweden

- GPA: 22.04/22.5

## WORK EXPERIENCE

### Teaching Assistant

Chalmers University of Technology

📅 Aug 2022 – ongoing

📍 Gothenburg, Sweden

- As a teaching assistant I guide three groups in a course of project development where programming in C and version control with Github is central.

### Youth Recreation Leader

Partille kommun

📅 Jan 2020 – Present

📍 Partille, Sweden

- Worked as a substitute at a youth recreation center.

### Mentor in Mathematics

Partille kommun

📅 Sep 2020 – Jun 2021

📍 Partille, Sweden

- Prepared problems and held in lectures for particularly interested students in grade eight and nine.

### Circus Summer School

Partille kommun

📅 2017 – 2022

📍 Partille, Sweden

- For six summers I planned and held a week-long day camp, introducing children age nine to ten to the discipline of circus.

### Substitute Teacher

Partille kommun

📅 Jan 2020 – Jun 2020

📍 Partille, Sweden

- I planned and held lectures in both science and mathematics for seventh-graders.

### Tekniksprånget Internship

Volvo Cars

📅 Aug 2019 – Dec 2019

📍 Borås, Sweden

- During the fall of 2019 I was involved in the testing of built-in active safety systems in cars, as well as modelling a prototype for automation of the testing.

## ABOUT ME

I am studying my third year of computer science and engineering at Chalmers University of Technology. I have always been interested in engineering, from when I was a child playing with Lego, up until today where I spend a lot of my spare time working on various programming projects. I love knowledge and problem solving, and I love to share it with other people.

## RELEVANT COURSES

- Data Structures and Algorithms
- Project in Computer Science and Engineering
- Machine Oriented programming
- Object Oriented Programming
- Introduction to Functional Programming

## INTERESTS

Training

Cooking

Music

Outdoor life

## LANGUAGES

Swedish



English



## TECHNICAL SKILLS

Python



Java



C



Git, Github



Office 365



Flutter



## SOFT SKILLS

Collaborative

Structured

Pedagogical

## ACHIVEMENTS

- Driving licence (B)
- I recieved a scholarship where I got the opportunity to conduct a basic research analyzing the connection between diabetes and PCOS at the University of Gothenburg.

## PROJECTS

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### Alarm System

C, GitHub, Latex

- I was the project leader for a school project where we developed an alarm system using the ARM-based, single chip computer md407.
- The system was developed using C. For version control, **GitHub** was used. The project was documented using **Latex**.

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### 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.
- The logic was implemented using **Python** and pygame was used for the graphics.

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### Cloth Simulator

Python

- A way of simulating soft materials with a model using springs and points of mass.
- **Python** was used for the logic.

## OTHER ACTIVITIES

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📅 May 2022 – ongoing

- As part of the [NAME] at the Student Division of Computer Science and Engineering, I was responsible for the connection between companies and students.

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### Committee of Sports

📅 May 2021 – April 2022

- During the year 2021 to 2022 I was part of the committee of sports at the Student Division of Computer Science and Engineering at Chalmers, where I held weekly activities and arranged larger events with other student divisions.

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### Adlerbert's Scholarship

📅 2021

- I received Adlerbert's scholarship for studies at Chalmers University of Technology.

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📅 Summer 2018

- During the year 2021 to 2022 I was part of the committee of sports at the Student Division of Computer Science and Engineering at Chalmers, where I held weekly activities and arranged larger events with other student divisions.

## REFERENCES

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References are available upon request.