



# TOBIAS OLSSON

Engineering student

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## SUMMARY

I'm Tobias Olsson, a Computer Science and Engineering student passionate about learning new technologies and problem-solving. Currently pursuing a MSc in Data Science and AI at Chalmers.

## SKILLS

**Languages:** Python, C, C++, Java, Matlab, SQL, VHDL, Javascript/CSS/HTML.

**Technologies:** Linux, Git, Docker, Jira, PyTorch, TensorFlow.

**Others:** Driving License, B.

## EDUCATION

- 8/2023 - 6/2025 **MSc in Data Science and AI** Chalmers University of Technology  
Master's program as part of my studies in the Computer Science and Engineering program, where I have gained much theoretical and practical knowledge in machine learning and data science.  
Relevant courses:  
Advanced Topics in ML, Advanced Probabilistic ML, NLP, Image Analysis, Deep ML, Applied ML, Design of AI Systems
- 8/2020 - 6/2025 **Computer Science and Engineering (300 ECTS Credits)** Chalmers University of Technology  
A five-year *Civilingenjör* program, where I developed a broad understanding of computer science, gaining expertise in areas such as software development, embedded systems, mathematics, data science, and artificial intelligence.  
Average grade: 4.76 (TH grading system), 3.7 (GPA).

## EXPERIENCE

- 1/2025 - 6/2025 **Thesis Work** AI Sweden  
I am working with the LeakPro team researching training data privacy risks in time-series ML models.
  - Exploring state-of-the-art Membership Inference Attacks.
  - Developing a benchmark suite for assessing data privacy leakage of time-series models.
- 6/2022 - 8/2024 **Summer Intern** Volvo GTT  
I spent three consecutive summers of experience in an agile software development environment, specializing in embedded systems.
  - Used **Python** and **Robot Framework** for writing tests and working with integration testing framework.
  - Programmed drivers and core software components for base platform software in **C**
  - Designed and maintained development tools and scripts using **Lua** and **Python**.
  - Created testing modules for integration tests using **VHDL**.
- 5/2023 - 5/2024 **Board Member** Career and Business Relations Committee at the CSE Student Division (DAG)  
I collaborated with companies to sponsor the student division.
  - Personally organized two lunch lectures together with companies.
  - Helped organize lunch lectures, pub nights and company trips.
- 8/2021 - 10/2021 **Teaching Assistant** Chalmers University of Technology  
I assisted students in the *Introduction to Functional Programming* course, providing support in Haskell programming.
- 1/2018 - 8/2020 **Care assistant** Uppvidinge Kommun  
I worked as a care assistant at a dementia home where I carried out patient care work.

## PROJECTS

- Minesolve** github.com/totte174/minesolve  
A highly optimized Minesweeper game solver implemented in **C** designed for efficiency and high win rates. Has the highest win rate of any minesweeper solvers on github. It utilizes logic-based deduction, combinatorial analysis and game tree search to identify optimal moves.

## LANGUAGES

**Swedish** - native, **English** - fluent