

# REZA REZVAN

COMPUTER SCIENCE & ENGINEERING MAJOR

Email: [reza@rezvan.xyz](mailto:reza@rezvan.xyz)

Phone: +46-720316110

Github: [rezaarezvan](https://github.com/rezaarezvan)

## ABOUT ME

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**Technical Skills:** C/C++, Python, Julia, Rust, Haskell, Go, Java, JavaScript, HTML/CSS, Unix/Linux, Git, Docker, SQL.

**Languages:** Fluent in English, Swedish and Farsi; Conversational Proficiency in French.

**Interests:** Technology, Mathematics, Probability & Statistics, Poker, History, Cinematography, Fishing.

## EDUCATION

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### Chalmers University of Technology

(September 2021- June 2026)

- Currently enrolled in the Computer Science & Engineering program at Chalmers University of Technology

## WORK EXPERIENCE

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### Huawei

Software Engineer Intern, 5G Wireless & Communications Research Team

Gothenburg (June 2022 - November 2022)

- Organized the annual Huawei hackathon, a real-world problem for over **1 000** participants to solve. It replicates **real-world 5G, 6G problems**. Read **scientific-papers** and in-depth research about 5G and 6G real-world problems. Wrote several possible solutions in **C/C++**, all while continuously giving and receiving feedback from the entire software team.
- Processed submission data from the hackathon - **visualized the data and statistics**, that Huawei uses for future development and hackathons, using **Python and SQL**.

## COMPETITIONS AND PERSONAL PROJECTS

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### C-like Compiler

- Consists of a **parser, type checker, and all other necessary components for a compiler**, all written in **Haskell**. Compiles small C-like programs to MIPS assembly.
- Writing this compiler required me to deepen my **computer architecture skills and low-level programming knowledge**.

### LAMS Library

- Wrote an entire **Linear Algebra** and **Multivariate Statistics** library; Has all necessary operations and functions for vectors, matrices, tensors, and distributions.
- Required me to deepen my knowledge about the math used for A.I and neural networks.

### Neural Network from scratch, in C & Python

- Written Neural Networks from scratch, both in C & Python, using my own **LAMS** library and **NumPy**.
- Tested and trained on simple data sets like MNIST as well as more complex and larger data sets such as time series from **Kaggle**.

### Stock & Crypto Analysis

- Different **A.I models in Python to predict** different stock prices based on parameters and price-suggestion models.
- Using the Flask framework for Python, I made a website that shows the predicted price for a stock in the future, using the **Black-Scholes model** and different A.I models.
- A analysis terminal program, called **st0nks**, which uses the **Black-Scholes stochastic modeling** for the evaluation and prediction. Using Python and the pandas library for data gathering and processing.

### ICPC

(2021)

- Competed in the annual **ICPC** in 2021.
- The ICPC consists of competitive programming questions which involve often **math-related and optimization problems**; We placed **3rd** at our university.

### Ericsson Hackathon

(2021)

- Competed in a Hackathon organized by **Ericsson** and the Computer Science Division at Chalmers.
- Our project consists of a leaderboard to ease keeping track of the different types of events and tournaments on campus.
- [Link to the project](#).