Reza Rezvan

Computer Science & Engineering Major

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About Me

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.

Work Experience

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 10 000 participants to solve. It replicates real-world 5G, 6G problems. Read 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 5G 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

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 in C

- Wrote a neural network from scratch in C, using only standard libraries. The neural network works with, for example, MNIST, time series and more.

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, which uses the Black-Scholes stochastic modeling for the evaluation and prediction. Using Python and the pandas library for the 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 optimizations problems; We placed 3rd at our university.

Ericsson Hackathon (2021)

- Competed in a Hackathon organised by Ericsson and the Computer Science Division at Chalmers.
- Our project consists of a leaderboard to ease keeping track of different type of events and tournaments on campus.
- Link to the project.

Education

Chalmers University of Technology (September 2021- June 2026)

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