Reza Rezvan

Computer Science & Engineering Major

Email: reza@rezvan.xyz Phone: +46-720316110 Github: rezaarezvan

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.

Education

Chalmers University of Technology (September 2021- June 2026)

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

Work Experience

Huawei

Software Engineer Intern, 5G Wireless & Communications Research Team Gothenburg (June 2022 - November 2022)

- Was a part of the hackathon team that organizes the annual hackathon - proof read and contributed to the problem-statement and possible solutions, all while continuously giving feedback to the event. Worked and developed multiple possible solutions, all written in C/C++.
- Processed submission data from the database and made statistics of this. Using Python and SQL, visualized the data and statistics, with plots, that Huawei uses for future improvements.

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.

Vim-like Text Editor

- Made a Vim-like terminal text editor using Rust. Using the crossterm crate in Rust for the terminal side of things - rest was written using the standard library in Rust.
- To both learn Rust, a language that is gaining popularity quickly, but also just to make a text-editor for fun.

Computational Science

- Using different math & visualizations libraries, such as Luxor, Javis, Matplotlib. Made visualization programs for different math & physics concepts.
- Fourier series, Series, Fluid simulation based on density equations, Different Archimedian spirals, Collatz conjecture, are a few to name, that I've implemented in Python & Julia.

Stock & Crypto Analysis

- Written a lot of programs and tools that uses data-gathering libraries/API's for stocks & cryptocurrency.
- 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.