

Reza Rezvan

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EDUCATION

Chalmers University of Technology

Gothenburg, Sweden

BSc in Computer Science & Engineering

Aug. 2021 - June 2024

- GPA: 4.33/5
- Selected Coursework: Linear Algebra, Calculus, Mathematical statistics and discrete mathematics, Multivariable Calculus, Computer science and engineering project (TA), Data structures and algorithms (TA), Principles of Concurrent Programming (TA), Computer system engineering (TA), Transforms, signals, and systems, and Control theory

PROFESSIONAL EXPERIENCE

Huawei

June 2023 - August 2023

Software Engineer Intern, Baseband Laboratory Team

Gothenburg, Sweden

- Optimized and parallelized C code through static code analysis, using C++, LLVM, and Clang tools..

Software Engineer Intern, 5G Wireless & Communications Research Team

June 2022 - Nov. 2022

- Wrote contest problems in C/C++ for the annual Huawei hackathon, engaging over 100 participants to solve real-world 5G and 6G problems.
- Wrote backend for hackathon website in Flask (Python) and MySQL along with Matplot visualization.

PROJECTS & COMPETITIONS

LAMS library | *C, Rust, Linear Algebra, Probability & Statistics*

- Wrote a Linear Algebra and Multivariate Statistics library containing operations and functions for vectors, matrices, tensors, and distributions

Compiler | *Haskell, Computer Architecture*

- 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.

rezvan from scratch | *Python, Jax, Numpy, Tensorflow, Pytorch, Equinox, Optax*

- Implemented various AI/ML/DL models and concepts, including CNNs, GANs, GPTs, RNNs, Backpropagation, and Transformers

ICPC

- Placed 3 @ Chalmers as first-year students

NWERC

- Placed 107 @ NWERC

Open source contributions

- Contributor to open-source projects such as [tinygrad/tinygrad](https://github.com/tinygrad/tinygrad), [ggerganov/ggml](https://github.com/ggerganov/ggml), and various smaller AI/ML repositories.

TECHNICAL SKILLS

Languages: C/C++, Python, Java, Haskell

Developer Tools: Git, Vim, Docker

Libraries: Jax, NumPy, pandas, Tensorflow, Pytorch