

Martin Hafskjold Thoresen /ma:rtɪn ha:fʒɔ:l tɔ:resen/

Drammen, Norway | m@mht.wtf | github.com/martinhath | linkedin.com/in/mhtwtf/ | mht.wtf

WORK EXPERIENCE

Software Engineer Nov 2025 — Present
Cognite
Oslo, Norway

- Work on authorization and authentication in CDF using Rust and Kotlin.

Algorithm Engineer Oct 2022 — Nov 2025
Vind AI
Oslo, Norway

- Developed design tools and optimization algorithms for screening and design of offshore and onshore wind parks.
- Worked full-stack in our 400'000+ LoC React+TypeScript frontend, and microservices on AWS Lambda.
- Developed internal tooling for static analysis and refactoring using [SWC](#) and Rust.
- Joined as employee #4, and helped scale the company to over 20 employees.

Computer Graphics Researcher Jun 2019 — Sep 2022
Institute of Science and Technology Austria
Klosterneuburg, Austria

- Developed interactive design tools for computational fabrication in C++ and OpenGL, and with Rust and WebGPU.
- Implemented a high-performance physics-based simulator for soft materials in C++ using [eigen](#).
- Worked extensively with 3D-printing, molding, and embroidery, as well as geometry processing for model generation.

Applications Developer Intern Jun 2016 — Aug 2016
Nordic Semiconductor
Trondheim, Norway

- Developed an `electron.js`-based app for management of Bluetooth mesh networks.

Applications Programmer Intern Jun 2015 — Aug 2015
ARM
Trondheim, Norway

- Developed internal tools for the Media Processing Group (MPG).
- Ported a Perl script used to extract of ISA-related data from Verilog and SystemVerilog files to Python.

PROJECTS

Technical Writing, Blog (mht.wtf/post/) Sep 2014 — Present

- Technical writing about computer science, programming, and related topics.
- Highlights: [Navigate Gates \(2025\)](#), [Searching High and fLow \(2023\)](#), [Efficient Simulation through Linear Algebra \(2022\)](#).

Plankton, "Algorithms as a Service" (plankton.systems) Nov 2023 — Present

- A SaaS for solving small instances of NP-complete problems in the cloud, implemented in Rust with `axum`, `sqlx`, and `htmx`.
- Implemented efficient brute-force solvers for 10+ problems, including `LONGESTPATH`, `VERTEXCOVER`, and `FEEDBACKVERTEXSET`.

Computational Geometry Research, Medial Axis Explorer (medial-ax.github.io/medial-ax/) Jul 2023 — Apr 2025

- Developed a research prototype for computing generalizations of the medial axis in Rust and TypeScript with `THREE.js`.
- Co-authored the paper "*The Mid-sphere Cousin of the Medial Axis Transform*" with Herbert Edelsbrunner and Elizabeth René Stephenson, accepted at [DGMM 2025 \(DOI, pre-print on arXiv\)](#).

Open Source Contributor Sep 2013 — Present

- I contribute back to open source projects that I use through bug reports and code contributions.
- I have code in projects including [the Rust compiler](#), [rayon](#), [libigl](#), and [the Zig compiler](#)

EDUCATION

Institute of Science and Technology Austria Sep 2018 — Sep 2022
Ph.D. Candidate, Computer Science (not completed)
Klosterneuburg, Austria

- Topic: Computational Fabrication with applications in soft robotics.
- Advisor: Bernd Bickel

ETH Zürich Feb 2017 — Aug 2017
Exchange student, Computer Science
Zürich, Switzerland

Norwegian University of Science and Technology Aug 2013 — Jun 2018
Master of Science, Computer Science, Specialization Algorithms and HPC
Trondheim, Norway

- Designed a multithread-aware garbage collector for Rust, and benchmarked strategies for memory reclamation.
- Advisor: Magnus Lie Hetland.