

# Falk Elvedal Bruskeland

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GitHub: falbru | Website: falbru.dev

## Education

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**Norwegian University of Science and Technology** August 2022 – present  
*Computer Science, Master's Degree Programme (sivilingeniør)* Trondheim, NO

**Pusan National University** March 2026 – present  
*Exchange student* Busan, KR

## Work

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**NTNU** August 2023 – November 2025  
*Student & Teaching Assistant* Trondheim, NO

- Student Assistant in TDT4109 Information Technology, Introduction (Autumn 2023, 2024 & 2025) and TDT4100 Object-Oriented Programming (Spring 2024).
- Teaching Assistant in TDT4200 Parallel Computing (Autumn 2025).
- Provided guidance in C, Python and Java programming to IT students.

**Capra Consulting** June 2025 – August 2025  
*Technical Team Lead, Summer Intern* Oslo, NO

- Consultant deployed at Sikri for reimplementation of a document management system used by municipalities and other public sector entities in Norway.
- Full-stack developer working with React frontend and Kotlin (Micronaut) backend, integrated with AWS services (S3, OpenSearch).
- Served as technical team leader and coordinated daily standup meetings, ensured progress, and communicated project status to the product owner.

**Aboveit** June 2024 – August 2024  
*Full-stack Developer, Summer Intern* Oslo, NO

- Together with six other developers, developed new features for a service that digitalizes shift schedules for nurses.
- Full-stack developer with TypeScript/React in frontend, and Go/Gin microservices in backend, with Google Spanner as database.
- Took initiative to develop a unit testing framework that ensures lasting code quality in the project.

**Kateter** June 2023 – August 2023  
*Software Developer, Summer Intern* Oslo, NO

- Kateter (kateter.no) is an online learning platform for university students in Norway.
- Worked in a team of four and developed an interactive visualization tool for mathematics using TypeScript, Next.js, and Three.js. Wrote WebGL shaders in GLSL.

## Volunteering

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### Webkom

*Leader & Software Developer*

September 2022 – present

*Trondheim, NO*

- Webkom is the committee that develops web solutions for the student organization Abakus. We operate abakus.no, the admission system, and the voting system for Abakus. Our services run on both our own servers and in the cloud.
- Full-stack developer with expertise in TypeScript, React, Next.js, Django, and Docker.
- Served as leader from November 2023 to February 2025. Led the committee's work and vision, and represented the committee externally. Was responsible for weekly work sessions with 25 members, organizing teams and managing projects to ensure deadlines were met.

### itDAGENE

*Board Member & Software Developer*

September 2023 – October 2024

*Trondheim, NO*

- itDAGENE is Norway's largest career fair for IT students with 80+ participating companies.
- Board member making decisions on behalf of 100+ students.
- Worked as a full-stack software developer in a team of three developers. Operated and developed the website itdagene.no using React and Django.

## Projects

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### Kakodemon

[github.com/falbru/kakodemon](https://github.com/falbru/kakodemon)

- Developing a GPU-accelerated graphical interface for Kakoune, a terminal-based code editor.
- Developed with C++ and OpenGL, structured according to hexagonal architecture with MVC in the application core.
- Communicates with the Kakoune backend via JSON-RPC, with parallel handling of requests through multithreading.
- Built for Linux desktop with tight integration: FontConfig and FreeType for font handling, and POSIX concepts such as named pipes for inter-process communication.

### Chess Tournament Website

[github.com/abakus-ntnu/abasjakk](https://github.com/abakus-ntnu/abasjakk)

- As part of a two-developer team, created a full-stack web application that has been used in two chess tournaments.
- Worked as backend developer developing the pairing algorithm and REST endpoints. Technologies used were Go, Gin, and MongoDB.

## Skills

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**Programming Languages:** Go, C++, C, C#, Java, Kotlin, Python, TypeScript, JavaScript, HTML/CSS

**Technologies:** Git, Docker, Qt, Gin, OpenGL, Google Spanner, Micronaut, Postgres, MongoDB, React, Next.js, Three.js, Node.js, Bun, Express.js, Django, Javafx, Drone, Cypress, AWS S3, AWS OpenSearch, GNU/Linux

## References

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Given upon request