

# Erik Braathen

Master's student in Computer Science, Uppsala University

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## PROFILE

Master's student in Computer Science with a particular interest in constraint programming, performance, and low-level code. My education has given me a strong computer-science foundation that lets me pick up new concepts quickly. I have co-implemented a custom heap with automatic memory management in C, built a local-search solver in Java, designed an ML model for grappling matches, implemented RSA encryption in Haskell, and led a human-robot interaction study on how users perceive customer-service scenarios depending on the robot's voice and dialect. Outside university I compete in Brazilian Jiu-Jitsu at an elite level and have coached a club of over 300 members for the past four years.

## EDUCATION

### MSc, Computer Science

*Autumn 2024 – ongoing*

*Uppsala University*

Expected graduation spring 2027.

### BSc, Computer Science

*Autumn 2021 – Autumn 2024*

*Uppsala University*

Bachelor's thesis: *Implementing Implicit Constraints for Local Search*, with Viktor Bakken. DiVA link.

### Technology Programme

*2017 – 2020*

*Westerlundska Gymnasiet*

Specialisation in Information and Media Technology.

## EMPLOYMENT

### Software Developer

*June 2025 – August 2025*

*Smoothcomp AB*

### Treatment Assistant

*June 2022 – December 2022, June 2023 – December 2023*

*SiS Eknäs*

### Rehabilitation Assistant

*June 2021 – December 2021*

*Mo Gärd Bredsand*

### Warehouse Worker

*November 2020 – December 2021*

*Oriola Pharmaceutical Warehouse*

### Member Administration and Archiving

*June 2019 – July 2019, July 2018*

*Svenska Pappersindustriarbetareförbundet, Stockholm*

## TECHNICAL SKILLS

**Languages:** C, Java, Python, C++, C#, Haskell, Assembly, SQL.

**Constraint programming:** MiniZinc, Gecode.

**Infrastructure:** Git, nginx, DigitalOcean, AWS.

**Collaboration:** Slack, Microsoft Teams, Jira, Trello.

**Design:** Figma, Miro.

**Office:** Word, Excel, PowerPoint, Outlook, Google Docs.

## OTHER MERITS

### Runs BracketBuilder.dev

*Ongoing*

A scheduler for the Limited Round Robin tournament format, an NP-hard scheduling problem.

### Volunteer work

*Ongoing*

Holds seminars for @ScrapsForACause, where all proceeds go to social initiatives. This year the money will cover competition costs for financially disadvantaged youths in BJJ in Eskilstuna.

### Driving licence AM/B

*July 2020*

## LANGUAGES

Swedish and Norwegian — native. English — fluent.

## REFERENCES

Available upon request.