



Sebastian Selander

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GitHub | LinkedIn

## Education

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### Master's degree in Computer Science

2023 – Present

- University of Gothenburg.
- Master's thesis - starts in January 2025

### Bachelor degree in Computer Science

2020 – 2023

- University of Gothenburg.
- Bachelor's thesis - an implementation of a functional programming language

## Work Experience

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### Software Engineering Summer Job

2023

#### *ES Heat Pumps AB*

- Implemented a **REST API** for a heat pump cost savings calculator using **Spring Boot**. The service calculated an estimated energy expenditure and cost, and from that data Energy Save could recommend an appropriate heat pump.
- Implemented an **PostgreSQL** database and integrated it with Flyway. Energy Save's heat pump testing data was stored in the database and used for calculating the estimated energy expenditure and cost.
- Prepared the project for deployment using **Docker**.

### Teaching Assistant

2022 - 2024

#### *Functional programming*

- Assisted students in the topic of **functional programming**, where they implemented the games blackjack and tetris.
- Graded assignments and aided in grading the final exam.
- 2023 and 2024

#### *Data Structures*

- Helped students learn **sorting algorithms**, **data structures**, and **graph algorithms**.
- 2022 and 2023

#### *Object Oriented Programming*

- Helped students implement and understand **object oriented principles**, **patterns**, and **programming**.
- 2022

## Skills

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**Languages:** Bash, C, Go, Haskell, Java, Lua, Python, SQL

**Tools:** Git, Linux, Docker, Gradle, Maven, Nix, Jira

## Other

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- Secretary of Computer Science division.
- Student representative for the Computer Science master's programme.
- Personal projects on Github page: <https://github.com/sebastianselander>

2022-2023

2023 - Present