

# Sebastian Johansson

## Personal Information

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**Name:** Erik Sebastian Johansson

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## About me

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- Seeking new challenges and opportunities for developing myself and others
- Loves programming, math and problem-solving
- Likes to: run, play football, play table tennis and many other sports

## Experience

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### Software engineer

*Internship at Volvo Trucks, Göteborg*

*2023*

Built and refactored/redesigned code architecture for Deep Learning training code (Python, PyTorch).

Built Large Language Model Agents related to software testing (Python).

### Software engineer

*Summer job at Aptiv, Göteborg*

*2023*

Made testing and analyzing tools for the developers of the Android infotainment system with Android (AOSP) tools (Kotlin, C++).

Made a tool that automatically write boilerplate code for gMock (Python, C++).

The work environment was in an agile-like structure.

### Store clerk / cashier

*Summer and weekend job at Maximat, Töcksfors*

*2017 - 2019*

Worked mainly as a store clerk in a large store, where I had to take care of customers.

Also helped as a cashier from time to time if there were many customers.

## Projects

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### Master Thesis

*2024-*

*Research about deep learning code from a software engineering perspective. Mining GitHub repositories with the help of LLMs (Python). Interviews with experts of DL.*

### Android Application

*2023-*

*Music quiz application for android. Kotlin, Android Studio, Room database*

### Web Application

*2022*

*Candidate project for playing a "Megagame". Angular front-end, Java back-end, SQL database*

### Web page

*2021*

*Created a web page for users to rate courses. JQuery, NodeJS, JavaScript, Python for webscraping*

### Game (TD)

*2020*

*Created a tower defense game with a couple of students as part of a school project for PC in Java*

## Education

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### Chalmers University of Technology

(Still ongoing) 2022-2024

*Master program Software Engineering (MPSOF)*

- Special Interest courses:
  - DAT321 Quality Assurance and Testing, a course in QA and software testing
  - DAT490 Architecture for scale-out systems, course about working in the cloud and Docker and Kubernetes
  - DAT550 Advanced Software Engineering for AI/ML-Enabled Systems, course about research in AI and ML

### Chalmers University of Technology

2019-2022

*Software engineering (Information Teknik (IT))*

- Special Interest courses:
  - TDA357 Databases, a course about databases with emphasis on SQL (PostgreSQL)
  - TDA362 Computer Graphics, a course about OpenGL and the graphics pipeline

## Personal Skills

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<i>Language</i>	Swedish (Native) English - Very competent
<i>Programming languages</i>	C, Java, Kotlin, SQL (PostgreSQL), C#, C++, Rust, Matlab, JavaScript & TypeScript (Angular and jQuery), Python (PyTorch)
<i>Software</i>	Intellij, Android Studio, Visual Studio, Visual Studio Code, Microsoft office, Linux (Ubuntu and Arch), Git, L <sup>A</sup> T <sub>E</sub> X

## Merits

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### Göteborgsvarvet

2022

*Run the Göteborgsvarvet 2022 with the time 01:46:38*