

# Simon Jakobsson

## EMBEDDED SOFTWARE ENGINEER

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## Skills

<b>Programming languages</b>	Typescript, Javascript, Python, C#, C++, Java, HTML, CSS, SQL
<b>Frameworks &amp; Techniques</b>	React, Vue, Node.js, REST, Django, Flask, MongoDB, .NET, Tailwind, Bootstrap, CI/CD, CMake, GTest, Agile, DevOps, pair programming, AUTOSAR
<b>Tools &amp; Environments</b>	Git, Docker, PostgreSQL, NoSQL, GitHub Actions, Gitlab CI/CD, TCP/IP, UDP/IP
<b>Languages</b>	English, Swedish

## Experience

### Vector Informatik | Embedded Software Engineer

Göteborg

C++, Python, Java, DevOps, Docker, AUTOSAR, TCP/TLS, UDP, IP

Mar. 2024 - Present

- Embedded C++ developer within Adaptive AUTOSAR, focusing on the network transport layer
- Leading multiple team projects, including technical problem-solving and development for customer-specific objectives

### Knowit | DevOps Master's thesis

Linköping

DevOps, GitHub Actions, Gitlab CI/CD, Jenkins, Azure, Docker

Aug. 2023 - Dec. 2023

- Implemented a standardized DevOps workflow to address knowledge loss in project-based environments with high developer turnover
- Applied testing standards, coding standards, and containerization to enhance knowledge retention
- Automated workflows and integrated tools within a CI/CD pipeline for continuous delivery and process improvement
- Used CMMI (Capability Maturity Model Integration) to assess and define the organization's DevOps maturity levels before and after

### Maxar Technologies | Full stack Developer

Linköping

TypeScript, Python, React, Django, PostgreSQL, CesiumJS, GIS, Agile

Jun. 2023 - Aug. 2023

- Created a web application from scratch to visualize data on an interactive globe
- Led the full development process, from defining requirements based on team needs to implementing the solution

## Education

### Linköping University

Linköping

M.Sc. in Computer Science and Software Engineering (Swedish: Civilingenjör i mjukvaruteknik)

- Specialization - Large-scale software development
- Bachelor thesis - Technical drawings and logistics in the construction industry (VueJS, Typescript)

### Lund University

Lund

Introduction to Information Systems (Swedish: Systemvetenskap)

- Completed one semester of coursework in Information Systems (Java, UML)

## Extracurricular Activity

### Datateknologsektionen | Welcoming committee

Linköping

Appearance and Music Coordinator

- Responsible for managing Datateknologsektionen reception at Linköping University
- Oversaw the team's presentation, including costume design, and managed all musical performances

### Datateknologsektionen | Board Member

Linköping

Board member at large

- Collaborated with fellow board members to implement strategic initiatives, growth and development of the organization
- Helped organize events and create a supportive environment for students during the pandemic

### Datateknologsektionen | D-band

Linköping

Band master

- Led rehearsal coordination and worked closely with the band to ensure alignment toward shared objectives
- Worked closely with event organizers to ensure good communication and collaboration for a successful performance