

OLIVER ODHE

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EDUCATION

M.Sc., Computer Science & Engineering | Chalmers University of Technology

Gothenburg, SE · 2022 – 2027

- Specialisation in Engineering Mathematics & Computational Science.
- Exchange Semester at The University of Tokyo (FS 2025).

B.Sc., Business & Economics | University of Gothenburg

Gothenburg, SE · 2024 – 2026

- Specialisation in Economics.

EXPERIENCE

Junior Developer | Finwire

Gothenburg, SE · Jun. 2025 – Present

- Built an internal Python library for developing RESTful APIs with FastAPI, accelerating migration from legacy PHP/MySQL systems.
- Developed Svelte UIs for AI moderation and pipeline editing, integrating with a metadata DB via FastAPI to automate content generation workflows.

Research Intern | Hiekata Lab, The University of Tokyo

Tokyo, JP · Oct. 2025 – Present

- Developing a system-dynamics model of Japan's freight sector to analyse how carbon-tax levels influence emissions, fuel costs, demand responses, and operator viability in a hard-to-decarbonize industry.
- Using machine learning to estimate uncertain parameters and simulate carbon-pricing scenarios, generating insights on tax levels and adaptive policies that balance emission reduction with economic resilience.

Software Developer | SF Marina System

Gothenburg, SE · Aug. 2024 – Jun. 2025

- Built and deployed an internal Django/PostgreSQL/JS platform to streamline project proposal workflows, integrating legacy engineering models into a modern web application used daily by company affiliates, reducing proposal turnaround from days to hours.

Teaching Assistant | Chalmers University of Technology

Gothenburg, SE · Aug. 2023 – May 2024

- Assisted in teaching four introductory programming courses (Haskell, Java, C, Assembly), supporting lab sessions, debugging, and grading for 100+ students.

Summer Intern | ITW Welding

Gothenburg, SE · Jun. 2023 – Sep. 2023

- Developed Python tools for visualization and analysis of welding process data, supporting R&D in evaluating material performance.

PROJECTS

Personalised AI Study Assistant | Rust, React, Python, RAG, Semantic Search

- Built an AI-powered study companion that provides personalised, context-aware tutoring and study recommendations by using course materials, goals, teaching modes, exam timelines, and user progress.

Kursvalshjälp | FastAPI, React, MySQL, Docker

- Created a full-stack course evaluation platform, enabling Chalmers students to search courses, view aggregated feedback statistics, and submit reviews.

Sustainable Computing Platform | Flask, Raspberry Pi, Vanilla JavaScript, Bash

- Developed a web application to monitor energy usage on microcomputers, providing real-time visual insights into the environmental footprint of software processes.

SKILLS

Programming Languages: Python, Java, JavaScript (ES6+), SQL

Web Technologies: Django, FastAPI, Flask, Svelte, HTML5, CSS3

Databases: PostgreSQL, MySQL, SQLite

DevOps / Tools: Docker, GitHub Actions, Microsoft Azure, Linux, Jupyter, Bash, LaTeX

Workflow: Git, Agile Software Development