

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