

Fredrik Nyström

fredriknystroms@gmail.com | linkedin.com/in/fredriknystroms | github.com/fredriknystrom

EDUCATION

Master of Science in Data Science and AI

Aug. 2023 – June 2025 (Expected)

Chalmers University of Technology

Gothenburg, Sweden

- Relevant Courses: Deep Machine Learning, Interactive Machine Learning, Big Data, Non-linear Optimization
- Exchange Studies: ETH Zürich, Switzerland, (Aug. 2023 – July 2024)

Bachelor of Science in Computer Science & Engineering

Aug. 2020 – June 2023

Chalmers University of Technology

Gothenburg, Sweden

- Relevant Courses: Data Structure and Algorithms, Databases, Introduction to Data Science and AI, Concurrent Programming, Object-Oriented Programming
- Student Activities: Coached the Computer Science Sports Committee's soccer team, iDrott.

EXPERIENCE

Software Engineer

June 2022 – Present

Axis Communication AB

Lund, Sweden

- Developed an internal information database system for the Core Technologies Imaging (CTI) team during three summer internships (2022, 2023, 2024) and I am currently working part-time with the team.
- Designed and developed the frontend and backend for a component information system using **MySQL, Python/Django, and HTML/CSS** in a Linux environment.
- Developed intuitive user interfaces and optimized data presentation, streamlining information retrieval and improving accessibility and usability for over 100 employees.
- Designed scalable database schemas to support robust application functionality.
- Configured and deployed **Nginx** and **Unicorn** to ensure high-performance server-side operations.
- Collaborated in an Agile environment with 2-3 weekly meetings to align on goals and progress.
- Delivered a solution that received strong positive feedback from Axis for meeting critical project requirements, which led to a part-time employment opportunity.

Teaching Assistant

Oct. 2022 – March 2023

Chalmers University of Technology

Gothenburg, Sweden

- Supervised over **350 students** during exercise and lab sessions for the course "**Introduction to Computer Engineering.**"
- Guided students through key topics, including **assembly programming, Boolean algebra, and circuit design.**
- Provided individualized support to ensure student comprehension and success in technical exercises.

PROJECTS

ResumePortfolio | *Python, Django, MySQL, JavaScript, HTML, CSS*

- Developed a personal website, **fredriknystrom.pythonanywhere.com**, using the Django framework, hosted on PythonAnywhere. The website showcases multiple interactive projects listed below.
- A machine learning model to predict handwritten digits entered by the user.
- A Todo List app with OAuth login support for GitHub and Google. The app supports full CRUD operations, with tasks stored in a MySQL database linked to the user.
- The Image Editor app enables users to upload images and apply transformations such as color adjustments, resizing, blurring, and format conversion, while maintaining the aspect ratio.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, HTML, CSS, SQL

Data Formats: JSON, XML, YAML

Frameworks and Libraries: Django, TensorFlow, PyTorch, Pandas, NumPy, Matplotlib

Tools and Platforms: Git, Jira, Linux, Nginx, Unicorn

ADDITIONAL SKILLS

Languages: Swedish (Native), English (Fluent)

Soft Skills: Teamwork in Agile environments, Leadership in managing project teams, Pedagogical skills for teaching and mentoring

Interests: Sports, Hiking, Skiing, Traveling