Gustav Gille

Gothenburg / Uppsala
+46 070 932 7207 | gustav.gille@gmail.com | gustavgille.com | linkedin| GitHub

Education

Chalmers University of Technology — Gothenburg, Sweden
M.Sc. Mathematical Engineering & Computational Science — *2024 – Present*

Chalmers University of Technology — Gothenburg, Sweden
B.Sc. Software Engineering in Mathematics — *2021 – 2024*

Experience

Research Assistant, Computing Science — 2025 – Present
Chalmers University of Technology — *Gothenburg, Sweden*
- Investigate causal structures in generative neural networks (diffusion / flow matching models) for Moritz Schauer and (also funded by) Richard Torkar with compute granted from National Academic Infrastructure for Super-computing in Sweden.

System Developer Internship — 2025 – Present
Centiro — *Borås, Sweden*
- Develop C# solutions connecting enterprise delivery systems to Centiro's logistics framework.

Teaching Assistant, Fundamental Computer Science — 2023 – 2024
Chalmers University of Technology — *Gothenburg, Sweden*
- Led tutorials and graded labs for ∼120 first-year students in low level computer science.

Speaker — 2023 – 2024
Chalmers IT Recruitment Group — *Gothenburg, Sweden*
- Delivered talks to audiences > 100 students and ran coding workshops on algorithms and neural networks for high-schoolers.

Projects

ClaudesLens | *Python, PyTorch, NumPy* — 2024
- Designed a theoretical model using iterated Gaussian noise to quantify uncertainty and improve neural-network prediction accuracy in computer-vision tasks.

gustavgille.com | *HTML, CSS, JavaScript, VPS, Nginx* — 2023
- Deployed a VPS in Germany with HTTPS/SSL and custom domain; built the site with vanilla front-end technologies.

Fourier Series Beam Model | *Python, JavaScript* — 2022
- Implemented Fourier-series approximation to model dynamic weight removal from a beam; interactive demo viewable on personal website and other fourier.

Technical Skills

Languages: Python, C#, C, Java, JavaScript, SQL, MATLAB, Assembler, Bash, Slrum
Libraries/Frameworks: PyTorch, NumPy, Matplotlib, FEM, ODE/PDE solvers, HTML/CSS
Tools: Git, Linux, SSH, VPS, Agile, APIs, GitHub Actions
Math: Financial mathematics, stochastic calculus, Optimization, Dynamical Systems

Links

Personal Website

Publication

LinkedIn

References

Available upon request (Elenore Vårhall,...)