Hannes Fahlin

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github.com/glazedegg

Education

University of Skovde | Bachelor's in Computer Science | Aug 2022 - Jun 2025

- **Diploma:** [Link]
- **Coursework:** Operating Systems, Discrete Mathematics, Algorithms and Data Structures, Concurrent Programming, Introduction to AI

Experience

Thesis Research (Industry-Partnered)

Combitech AB, Skovde, Sweden | Jan 2025 - Jun 2025

- Evaluation and Fine-Tuning of Monocular Depth Estimation Models Across Diverse Datasets.
- Built a Python benchmarking framework on Linux to standardize accuracy (δ_1), latency/throughput, and memory measurements.
- Evaluated transformer- and diffusion-based MDE models across **13** datasets to assess generalization and real-world viability.
- Fine-tuned top models; improved δ_1 up to **21%** and reduced GPU inference latency **18%** via mixed precision.
- Produced deployment trade-off recommendations for autonomous systems and AR.

Software Engineer Intern

Bally's Interactive, Skovde, Sweden | Jun 2024 - Jul 2024

- Built and maintained web features with Spring Boot, React.js, and Liquibase; implemented Okta authentication.
- Refactored JavaScript to TypeScript to improve safety and maintainability.
- Wrote JUnit tests and participated in reviews; managed CI/CD in GitLab.
- Shipped a product update adopted by 70+ employees, improving internal efficiency and satisfaction.

Software Engineer Intern

Soderberg & Partners, Stockholm, Sweden | Dec 2022 - Mar 2023

- Built backend services and REST APIs using C#, ASP.NET Core, and Swagger for in-house fintech apps.
- Used Azure DevOps for version control, CI/CD, and agile practices.
- Co-developed a Microsoft Teams bot feature that increased customer satisfaction by ~20%.

Projects

arXiv Screener | github.com/glazedegg/arxiv_screener

- Python tool to surface yesterday's most relevant arXiv papers and quick synopses.
- Fetches the previous day's arXiv posts and outputs concise summaries for rapid triage.
- Includes an X/Twitter posting module (@ArxivScreener).

Technologies

Languages: Python, Java, C#, JavaScript, TypeScript

Technologies: PyTorch, Spring Boot, React, ASP.NET Core, Git, GitLab, GitHub, Azure DevOps, JUnit, Linux