

Hannes Fahlin

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Education

University of Skövde, Bachelor's in Computer Science August 2022 – June 2025

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

Experience

Software Engineer Intern, Bally's Interactive — Skövde, Sweden June 2024 – July 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, reducing regressions; managed CI/CD in GitLab.
- Shipped a product update adopted by 70+ employees, improving internal efficiency and satisfaction.

Software Engineer Intern, Söderberg & 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 (daily scrums, sprint reviews).
- Co-developed a Microsoft Teams bot feature that increased customer satisfaction by 20%.

Research Experience

Research Thesis (Industry-Partnered): Evaluation and Fine-Tuning of Monocular Depth Estimation Models Across Diverse Datasets Jan 2025 – Jun 2025
[urn:nbn:se:his:diva-25551]

Hannes Fahlin, Max Rapp in collaboration with Combitech AB

- 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..
- Did a trade-off analysis for deployment to recommend models for autonomous systems and AR.

Projects

arXiv Screener github.com/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 for daily updates (@ArxivScreener).

Technologies

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

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