

ANDREAS LINDEBORG

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Education

M.Sc. in Information Technology and Engineering

Aug 2021 – Jun 2026

Linköping University

Linköping, Sweden

Master's Thesis, Saab AB Aeronautics (TES)

Evaluating the Accuracy of GUI Testing Using Multi-Modal Large Language Models

Conducted in collaboration with Saab Aeronautics and the Tactical Environment Simulation (TES) section. The thesis evaluates AI-driven automation of GUI testing by combining visual input and natural-language instructions, with a focus on software testing and experimental evaluation in an industrial environment.

Bachelor's Thesis, Department of Computer and Information Science (IDA)

Enhancing Privacy in Social Matching through Mixnets and Solid Pods

Privacy Enhancing Technologies (PETs) applied to social matching, evaluating system performance and privacy trade-offs using Mixnet for anonymous communication and Solid Pods for decentralized data storage.

- Master's specialization in *Secure Systems*, focusing on information security, software security, and artificial intelligence.
- Relevant coursework: Object Oriented Programming, Data Structures and Algorithms, Concurrent Programming and Operating Systems, Computer Networks, Database Technology, Advanced Web Programming, Information Security, Software Design and Construction, Software Testing, Ethical Hacking, Ethical Issues in AI.

Foundation Year in Science and Technology

Aug 2020 – Jun 2021

Linköping University

Linköping, Sweden

- Completed with distinction in Mathematics, Physics, and Chemistry (GPA 4.6/5.0), earning guaranteed admission to any engineering specialization.

Work Experience

Kjell & Company

Jun 2017 – Aug 2020

Sales Assistant

Stockholm, Sweden

- Provided tailored technical solutions to customers, consistently exceeding sales expectations.
- Strengthened problem-solving and communication skills in a retail tech environment.

MAX

Jul 2016 – Jun 2017

Kitchen Manager / Staff Manager

Stockholm, Sweden

- Promoted to Kitchen Manager after one month, overseeing scheduling, staffing, and daily operations.
- Recognized as part of the company's "Dreamteam" (2017) for outstanding leadership and performance.

Projects

GUIOracle | DiVA

Python | Ollama | OmniParser | PyAutoGUI

- Built a local M-LLM pipeline for automated GUI test execution and verification as part of my Master's thesis.
- Integrated screenshot parsing, visual grounding, and PyAutoGUI-based GUI actions in Saab's Tacs simulator.

PBL Meeting Tool | Website | Source Code

TypeScript | React | Firebase (Auth, Firestore, Storage)

- Designed a collaboration platform for student groups using Problem-Based Learning (PBL).
- Features include role assignment, vinjett upload, live note-taking, and meeting archiving.

Solid Mixnet App | DiVA | Source Code

JavaScript | Solid Pods | Mixnet (Nym)

- Developed a privacy-preserving social matching service for my Bachelor's thesis.
- Integrated Solid Pods for decentralized storage and Mixnets for anonymous communication.
- Evaluated system performance and privacy tradeoffs, focusing on latency versus privacy enhancement.

Portfolio Website | Website

TypeScript | NextJS | Tailwind CSS | Vercel

- Built and deployed a responsive personal website to showcase background, projects, and experience.
- Implemented modern UI design practices using Tailwind CSS and deployed the site with Vercel.

Technical Skills

Languages: C, C++, SQL, Python, Java, JavaScript, TypeScript, HTML5, CSS

Developer Tools: Git, MySQL, Docker, PostgreSQL, Supabase, Ollama, GCP, Vercel, Firebase, Gradio

Libraries/Frameworks: React, NextJS, NodeJS, Tailwind, PyAutoGUI