

073 324 54 75
Uppsala
soothingjennyg@gmail.com

Jennifer Anne Gross

soothingjennyg.
github.io
GitHub:
soothingjennyg
LinkedIn:
jennifer-gross-52b89a7

EDUCATION

Master of Computer Science
Uppsala University

2017 - 2023 (expected)

Main courses: Intro to Programming Courses with C++ and Java, Machine Learning, Human Computer Interaction, Database Design, Algorithms, Operating Systems, Full Stack Development

Projects: Database Queries of Board Games (Postgres), Quicksort and a Quicksort Hybrid Complexity Analysis (Java), Create a To Do List App (HTML, Java), Comparison of Convolution Size in a Convolutional Neural Network (Python), Comparing String Matching Algorithms (Java).

Master of Teaching
George Fox University

2011 - 2013

Main courses: High School and Middle School Teaching Pedagogy for Math and Chemistry

Bachelor of Chemistry
Washington State University

2000 - 2005

Main courses: Analytical Chemistry, Forensic Chemistry, Organic Chemistry, Thesis Project in Liquid Crystals

WORK EXPERIENCE

Teacher Assistant
Uppsala University

2021 - Present
Uppsala, Sweden

- Intermittent job throughout masters degree for Software Engineering and Project Management.
- Provided group support, lead retrospectives, graded exams.

Teacher Assistant
Portland State University

2018 - 2020
Portland, OR USA

- Intermittent job throughout masters degree for Intro to Programming using C++.
- Run labs, monitored exams, grading, and technical support.

Math Teacher
Madison High School

2015 - 2016
Portland, OR USA

- Taught supplemental course for geometry.

Research Technician
Intel

2005 - 2010
Hillsboro, OR USA

- Worked on multiple dry- and wet- etch stations; tool owner' of Rudolph ellipsometer; cross trained to support planar tools.
- Coordinated with process engineering and tool vendors to facilitate experiments and pilot-line production
- Helped to develop new specifications for pilot line production, preventative maintenance
- Executed experiments and analyzed their results on a daily basis for research and pathfinding work; assisted in follow up experiment design
- Frequently analyzed wafer devices and surfaces for defects, etches, and cleans for using microscope, topographic SEM, and cross-sectional SEM. procedures, and unplanned maintenance tasks

Medical Administration

Air Force Reserves

2005 - 2010

Portland, OR USA

- Created local Access database for tracking required information, which successfully pinpointed people in need of further testing.
- Maintained deployment and medical records.
- Modeled a system for dental appointments which reduced time required for general physicals.

PROJECTS

Compare graphical neural network to a classical method for shortest path

Current

Master's Project

- Project course with Ericsson to identify where graphical neural networks may outperform Dijkstra's shortest path algorithm.

Defining User Requirements for a Pharmacy System

Current

Master's Thesis

- Working with pharmacists at Akademiska Sjukhuset to identify software requirements for a new central pharmacist role.
- Will use Vue to create iterative prototypes.

Student Perceptions of Online Learning During the Pandemic: A Change in Social Dynamics at a Swedish University

2021-2022

Research Paper

- Interviewed bachelor's students and completed content analysis of results.
- Paper presented at the 2022 IEEE Foundations in Education Conference in Uppsala Sweden.

Research and Synthesis on Liquid Crystals

2005

Bachelor's Thesis

- Compared the liquid crystal phase of a compound to its series with different length carbon chains.
- Created and isolated the liquid crystal compound in the lab

SKILLS

Programming

Python, Java, C, C++, L^AT_EX

Communication

English (native), Swedish (beginner)

Other

Github, Microsoft Office, Visual Studio Code