Amanda Andreasen

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Education

Cornell University - Ithaca, NY Aug. 2019 – Present

Bachelor of Science in Computer Science – expected May 2023

GPA: 4.03/4.30

Courses

Graduate: Advanced Programming Languages, Certified Systems (current), Runtime Verification (current)

Undergraduate: Compilers, Formal Verification, Systems Programming, Machine Learning

Skills

Languages: OCaml, Python, JavaScript (ES6), Java , C/C++
Markdown: HTML5, CSS3
Frameworks: React.js, Redux, Flask
Testing: Jest, JUnit, OUnit, React Testing Library
Tools: Git, Agile

Experience

Software Engineering Intern | *Jane Street Capital* May. 2022 – August 2022

- Worked in OCaml to complete multiple projects with two teams in distinct areas
- Built an app that creates and updates a real-time database of important financial information
- Improved Kafka partition scheme to support an increased load of trading data
- Upgraded a critical internal library by adding significant flexibility to user configuration options

Software Engineering Co-op | *Wayfair* Jan. 2021 – June 2021

- Developed new features and front-end components using React.js and Redux
- Built new UI for email content management app, leading to an estimated 50% reduction in user time spent in key workflows
- Maintained multiple Notifications apps used to generate over $500 million in yearly revenue

Computer Science Teaching Assistant | *Cornell University* Jan. 2020 – Present

- Leads weekly recitations, holds office hours to assist with assignments and concepts, and grades exams
- Received faculty-nominated award for exemplary undergraduate TAs
- Classes include Functional Programming (CS 3110) and Data Structures and OOP (CS 2110)

Projects

Xi Compiler | *OCaml, x86 Assembly*

- Programmed a compiler from scratch in OCaml that compiles Xi programs to x86 assembly
- Implemented optimizations such as linear scan register allocation, dead code elimination, and loop unrolling

COVID-19 Data Visualization | *React.js, Flask, SQLite*

- Integrated Google Places API to display coronavirus cases by U.S. county given a location
- Used Python Flask server and SQLite database to create an API that supports searching COVID case data
- Used React.js to create client-side application