



education

bachelor of arts

williams college | june 2021

- graduated magna cum laude with highest honors in computer science
- computer science/math double major
- Phi Beta Kappa honor society
- gpa: 3.99

high school

deerfield academy | june 2017

- graduated Cum Laude with honors
- Harbeson award for excellence in mathematics
- Dessauer award for excellence in the study of physical sciences
- gpa: 92.8 out of 100

coursework

computer science

operating systems (TA)
theory of computation (TA)
algorithmic game theory
app. dev. with functional programming
distributed systems
principles of programming languages (TA)
storage systems
introduction to computer security
algorithm design & analysis (TA)
computer organization (TA)
data structures & advanced programming

math

probability • graph theory • set theory • topology • real analysis • abstract algebra • linear algebra • statistics & data analysis

skills

languages

experienced

ocaml • java • python • javascript • bash

working knowledge

c • c++ • c# • f# • assembly • html • hack

general

javascript frameworks

typescript • flow • react • graphql •

node.js • socket.io • jest

software

spacemacs • vscode • vim • latex

areas of interest

trading systems • programming languages

• developer tooling • backend

development • game development

experience

jane street | software engineer

july 2021 - present

- contributed in building out a new internal OCaml trading system that specializes in connecting to external platforms using the FIX protocol, executing orders automatically, and displaying a user interface for interacting with these orders automatically, with large notional quantities trading using this system daily
- supported, maintained, and improved a large variety of existing critical trading tools used by the Sales Trading desk, including infrastructure to handle incoming Request For Quotes (RFQs)

jane street | software engineering intern

june 2020 - august 2020

- worked on an OCaml profiling tool to allow tracing the performance of function calls and remote procedure calls with minimal overhead
- created an application for aggregating and publishing Jane Street's recent cryptocurrency trading volumes

facebook | software engineering intern

may 2019 - august 2019

- worked on the **Oculus Identity** team to extend the backend infrastructure for alternate identity on various Facebook and Oculus surfaces, including adding messaging support for alternate identities
- worked on the **Facebook Gaming Services** team on a full-stack project to add gaming identity support to Facebook Groups, Messenger, and other products

williams college | computer science teaching assistant

september 2018 - december 2020

- hosted TA sessions 2-3 times per week for the following courses
 - theory of computation (fall 2020)
 - principles of programming languages (spring 2020)
 - algorithm design & analysis (fall 2019)
 - operating systems (spring 2019)
 - computer organization (fall 2018)
- taught students concepts for the courses, graded assignments, gave feedback for improvement, and discussed the students' progress with professors and other TAs

williams college | computer science research assistant

june 2018 - august 2018

- conducted research on developing content-aware filesystem benchmarking
- analyzed existing filesystem usage with Python and wrote benchmarks in C to simulate realistic behavior
- optimized informational entropy based content generation system in assembly to reduce CPU overhead

abb robotics | software engineering intern

june 2016 - august 2016

- developed software in C# to process 3D printer code and convert it into robotic arm instructions
- ensured that the generated code satisfied the high precision required by the industrial robotic arms