



education

bachelor of arts

williams college | expected june 2021

- computer science and math double major
- inducted to the Phi Beta Kappa honor society
- gpa: 3.98

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

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

java • python • javascript • hack • ocaml

working knowledge

c • c++ • c# • f# • assembly • html

general

javascript frameworks

typescript • flow • react • graphql • node.js • socket.io • jest

software

vscode • spacemacs • vim • latex

areas of interest

programming languages • developer tooling • AR/VR • web backend development • game development

employment experience

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 - present

- hosted TA sessions 2-3 times per week for the following courses
 - 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 2015 - august 2015

- 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

leadership experience

williams students online | systems administrator

april 2018 - may 2020

- managed the systems behind WSO, a student run website that offers online services for Williams College students
- worked with other students on Ruby on Rails development to create new features for the website
- website link: <https://wso.williams.edu>

williams magic: the gathering club | president

may 2018 - may 2020

williams league of legends club | treasurer

may 2018 - present