

# Connor Mowry

connormowry.me

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## EDUCATION

### CARNEGIE MELLON UNIVERSITY

#### BS in Computer Science

Concentration in Algorithms and Complexity

Expected May 2025 | Pittsburgh, PA

Cum. QPA: 3.79

### CULINARY LEAVE OF ABSENCE

Fall 2019 – Spring 2023

- Pursued a passion for cooking during a leave of absence from CMU.
- Worked at a local sandwich shop and completed the Culinary Arts program at the Community College of Allegheny County.
- Gained professional experience at the Duquesne Club, advancing from preparatory tasks to line cook.

## COURSEWORK

(Asterisk denotes course in progress)

Parallel Comp Architecture and Prog (15-418)\*

Computational Discrete Mathematics (15-354)\*

Undergraduate Complexity Theory (15-455)

Advanced Algorithms (15-850)

Undergraduate Quantum Computation (15-459)

Ethics and Policy Issues in Computing (17-200)

Algorithm Design and Analysis (15-451)

Foundations of PL (15-312)

Probability and Computing (15-259)

Intro to Computer Systems (15-213)

Data Structures and Algos (15-210)

Hype for Types (98-317)

Great Theoretical Ideas in CS (15-251)

More Great Ideas in TCS (15-252)

Intro to Functional Programming (15-150)

## SKILLS

### PROGRAMMING LANGUAGES

C/C++ • Python • OCaml • C# • Java

Javascript/Typescript • HTML & CSS

### TOOLS & FRAMEWORKS

Play • Docker • Flask

React Native • Git • PostgreSQL

Bootstrap • Bash • ~~TeX~~ • Vim

## RESEARCH

### CARNEGIE MELLON UNIVERSITY | Theory Researcher

Sep 2024 – Present | Pittsburgh, PA

- Collaborating with Prof. Ryan O'Donnell to simplify variance analysis in uniformity testing using the Efron-Stein inequality for non-identically distributed samples.

### CARNEGIE MELLON UNIVERSITY | Algorithms Researcher

Apr 2024 – Present | Pittsburgh, PA

- Working with Prof. Jason Li to explore theoretical improvements on the negative-weight single-source shortest paths problem based on recent breakthroughs in the field. A draft is available at arXiv:2411.19449.

## EXPERIENCE

### MICROSOFT | Software Engineer Intern

May 2019 – Aug 2019 | Cambridge, MA

- Implemented feature using C# and Typescript allowing IT admins to prevent users from removing or wiping corporate managed devices.

### CARNEGIE MELLON UNIVERSITY | Teaching Assistant

Jan 2019 – May 2019 | Pittsburgh, PA

- Led weekly recitations and office hours, co-created new labs, and graded for Data Structures and Algorithms (15-210).

### SEI (CMU) | Software Engineer Intern

May 2018 – Aug 2018 | Pittsburgh, PA

- Built from scratch a Java Play Framework web application to easily configure and monitor the security state and data of IoT devices.

### ELLIANCE | Software Engineer Intern

June 2017 – Aug 2017 | Pittsburgh, PA

- Developed Pittsburgh.net mobile application using React Native to help users browse and save local Pittsburgh events.

## ACTIVITIES

### SCOTTYLABS | Director of Technology

Aug 2018 – May 2019

- Managed club's technical direction and oversaw all technical projects.
- Presented a seminar on Git that covered basic usage and extensively examined branching.
- Led a workshop on back-end development at WebDevWeekend, an educational event introducing students to web dev fundamentals.
- Planned TartanHacks, Carnegie Mellon's largest hackathon of over 400 students.