

Connor Mowry

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EDUCATION

CARNEGIE MELLON UNIVERSITY

BS in Computer Science

Concentration in Algorithms and Complexity

Expected May 2025 | Pittsburgh, PA

Leave of Absence Fall 2019 - Spring 2023

Cum. QPA: 3.79

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 • \LaTeX • 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.

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.