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
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 | Algorithms Researcher

Apr 2024 – Present | Pittsburgh, PA

- Working with Prof. Jason Li to analyze and investigate potential improvements to a 2023 result on the negative-weight single-source shortest paths problem, building upon the foundational 2022 breakthrough 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).

SOFTWARE ENGINEERING INSTITUTE | Developer 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 | Developer 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.