



Corey Emery

Software Engineer | UX Researcher

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PROJECT & WORK EXPERIENCE

Tech Lead & UX Researcher

Highmark, Carnegie Mellon MHCI Capstone

Jan 2020 - Aug 2020 | Pittsburgh, PA

Designed an app to improve member financial health literacy by developing intrinsic motivation to get preventive tests, increasing transparency into cost, and encouraging greater engagement with care and insurance.

Core Development Software Engineering Intern

Jump Trading

Jun 2019 - Aug 2019 | Chicago, IL

Collaborated with intern class to build a trading platform, focusing on a gateway that manages client orders and exchange connections. Improved market data recovery logic for a major futures exchange.

Front-End Web Contractor

Wicklets

Sep 2018 - Jun 2019 | Pittsburgh, PA

Built website for the Wick Editor, an online tool to help elementary and middle school students create games and animations. Used React framework and created custom components to fit company's brand.

Full-Stack Software Engineering Intern

Wayfair

May 2018 - Aug 2018 | Boston, MA

Developed a news feed of user-created rooms using GraphQL, React, and Redux for Room Planner to analyze and improve the tool. Co-created first Community Coding Day for 6th-8th graders to outreach to underrepresented community.

Research Assistant

Carnegie Mellon Department of Statistics and Data Science

Jan 2017 - May 2020 | Pittsburgh, PA

Explored ways to enhance tennis analysis and player development strategies using spatiotemporal data. Investigated Irish Census data using webscraping and graphical data visualization with the goal of augmenting record linkage models.

Teaching Assistant

Carnegie Mellon Courses: 36-202, 15-112, 36-226, 36-225, 05-430/630

Jan 2017 - May 2020 | Pittsburgh, PA

Led labs, recitations, review sessions, and office hours for classes of 60 to 200+ students. Mentored students in Python term projects, data analysis in R and Minitab, and web design and programming.

PROJECT ARTIFACTS

Highmark - MHCI Capstone

the-a-team-mhci.webflow.io

The Wick Editor

wickeditor.com

Senior Honors Research

coreyemery.com/files/ce_thesis_talk.mp4

Wayfair Room Planner Feed

coreyemery.com/files/ce_wayfair_demo.gif

EDUCATION

Carnegie Mellon University

Master of Human-Computer Interaction

Jan 2020 - Dec 2020

B.S. in Statistics & Machine Learning

Add'l Major in Human-Computer Interaction

Aug 2016 - May 2020 | GPA: 4.00

Phi Beta Kappa

Andrew Carnegie Scholar

University & College Honors

Quantitative Social Science Scholar

LEADERSHIP

Head Ambassador

Carnegie Mellon Mudge House

Aug 2019 - May 2020

Defined and executed vision for group of 9 upperclass students who served as live-in mentors for first-year students.

Resident Assistant

Carnegie Mellon Residential Education

Aug 2017 - May 2019

Aided in emergency situations and executed programming for 340+ first-year and upperclass students.

Greek Sing Chair

Delta Tau Delta - Delta Beta Chapter

Aug 2018 - Mar 2020

Led production and rehearsal of a 15-minute musical in annual competition/fundraiser. Oversaw service and philanthropy efforts.

SKILLS & TOOLS

Programming

Python R C++ HTML/CSS/JS
React Redux SQL GraphQL

Design

Rapid Prototyping Persuasive Design
Sketch Figma InVision

UX Research

Affinity Diagramming Contextual Inquiry
Directed Storytelling Experience Prototyping
Heuristic Evaluation Journey Mapping
Stakeholder Mapping Storyboarding
Think-Aloud Protocol Usability Testing