

Harris McCullers

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EDUCATION

PITZER COLLEGE

COMPUTER SCIENCE

Graduating May 2021 | Claremont, CA
Majoring in Computer Science at Harvey Mudd College while being a student at my home campus of Pitzer College has given me both a comprehensive computer science education and an exposure to the liberal arts. I am the president of an on campus a capella group, and I enjoy music, fitness, and a variety of independent engineering projects.

SKILLS

VERY SKILLED IN:

Python · TypeScript · C/C++ · Git · Docker/Containerization · JavaScript

ALSO COMFORTABLE WITH:

React · Node.js · Java · MySQL · Linux

FUNDAMENTALS:

Issue Tracking (Jira), Complexity analysis, Recursive techniques, API Design and Usage, Data Structures, Object-Oriented Programming, Program design.

COURSEWORK

ALGORITHMS, HARVEY MUDD

CS140 - Spring 2017

Algorithm design, analysis, and correctness. Applications including sorting and searching, graph theoretic problems, and others.

SOFTWARE DEVELOPMENT, HARVEY MUDD

MUDD

CS121 - FALL 2018

Design and implementation of software. Project management, agile development, and QA testing.

COMPUTER SYSTEMS, HARVEY MUDD

CS105 - Spring 2019

Data representations, processor architecture, program optimizations, virtual memory, system-level I/O, and concurrent programming

DATA STRUCTURES AND PROGRAM

DEVELOPMENT, HARVEY MUDD

CS070 - FALL 2018

Abstract data types, efficient data structures for these data types, runtime analysis of data structures

EXPERIENCE

DESMOS | HMC SENIOR CLINIC

September 2020 - Present | Remote

*The Harvey Mudd Clinic program allows seniors to spend a year working for a company with a small team.

- As team project manager, I work to coordinate between members of the Harvey Mudd and Desmos teams and to embed task management and agile practices into our workflow.
- Using primarily Typescript, I am working on helping Desmos to create developer tools, IDE enhancements, and new language functionality for their teacher-facing scripting language 'Computation Layer'.

KITTY HAWK | SOFTWARE ENGINEER INTERN

May 2020 - May 2020 | Remote

*This internship was cut short after only a week due to the unexpected cancellation of my team's project.

- Remotely interviewed and joined the UPS team of the flyer project to develop software which monitored the system health of the vehicle in flight.
- Used C++, Python and the ROS stack to develop software which interfaced between all of the different embedded devices within the flyer and a central linux flight computer.

MAGICLINKS | PROJECT AND PRODUCT MANAGEMENT INTERN

May 2019 - September 2019 | Venice, CA

- Responsible for creating new projects and features for the Magiclinks website and mobile app, as well as seeing those features through to production.
- Mediated between the business and product teams to contribute to many separate projects of varying sizes, as well as to take ownership of independent projects.
- Coordinated with a team of 5 developers on daily calls to prioritize and work through a wide array of tasks
- Developed useful and relevant projects for the company in a timely and efficient manner

HIGHLIGHTED PROJECTS

PREDICTION WIDGET | MAGICLINKS

Summer 2019 | MagicLinks

- Deployed to an audience of 40,000+ active users and even more potential users
- Acted as both PDM and PJM to ideate new project idea with CEO and business team leads, then executed on those ideas with a team of 5 developers
- Developed prediction algorithm using historical consumer data from the platform to estimate product value for a given user.

MOVIE SEARCH SITE | PERSONAL

Summer 2019 | Personal

- Designed live webapp using LAMP stack, and deployed it on small home-made server.
- Created easy to use and understandable UI in javascript, and a secure backend in PHP.
- Used MySQL Database to implement user login, movie requests, prioritized download queue, and user download history

For more, take a look at [my github](#).