

Colby Morrison

SOFTWARE ENGINEER

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Experience

Covid Watch

The Internet

SOFTWARE ENGINEER (VOLUNTEER)

March 2020 - September 2020

- Covid Watch is a non-profit who builds a exposure notification system that is focused on privacy and anonymity. Through a mobile app, the system alerts users to possible COVID-19 exposures. The system is currently used by universities in the state of Arizona, with more locations coming soon.
- Helped develop the organization's website and a React web app used by health authorities to verify diagnoses. The work was open source and the web app can be found at <https://github.com/covidwatchorg/portal>.
- Wrote CI/CD pipelines and managed AWS distributions.

Vassar College

Poughkeepsie, NY

COMPUTER SCIENCE LAB COACH

August 2017 - May 2020

- Assisted in laboratory sessions for classes *Operating Systems*, *Data Structures and Algorithms* (Intro to Java), and *Problem Solving and Abstraction* (Intro to CS in Scheme).
- Held personal office hours 9 hours per week for students who required help.
- Gave students real-time feedback on their code and explained larger concepts such operating systems theory, object-oriented programming, and data structures.

Facebook

Menlo Park, CA

PRODUCTION ENGINEER INTERN

June 2019 - August 2019

- Worked on the Real-Time Infrastructure team.
- Wrote a debugging feature and implemented A/B tests to assess the quality of a migration. Primarily programmed in C++ and Python.
- Learned the challenges of building and maintaining services at a large scale.

IBM

Poughkeepsie, NY

DEVOPS DEVELOPER INTERN

June 2018 - August 2018

- Worked in the IBM Z Innovation Lab.
- Learned modern DevOps and cloud computing tools such as Docker, Kubernetes, and OpenShift.
- Presented final projects to executives at intern finale event.

Vassar College

Poughkeepsie, NY

RESEARCH ASSISTANT

November 2016 - November 2017

- Worked with professor Pavel Naumov to improve and generalize an existing model of Diffusion in Social Networks. Proved our model's consistency and completeness.
- Published paper "Group Conformity" to the Journal of Logic, Language and Information.

Education

Vassar College

Poughkeepsie, NY

B.A. IN MATHEMATICS AND COMPUTER SCIENCE

August 2016 - May 2020

- 3.86 GPA
- Mathematics Departmental Honors
- Computer Science Departmental Honors
- General Honors
- Capitan - Vassar Ski Team
- President - Vassar Outing Club

Skills

Languages Python, C, C++, JavaScript, Java

Web Development HTML, CSS, React, Vue, Node.js

DevOps AWS, Docker, Kubernetes, CI/CD

Operating System Unix, Linux, macOS

Tools Bash, Git