Darby Clement

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EDUCATION

University of California, Berkeley Expected Graduation: Spring 2023

Bachelor of Science, Electrical Engineering and Computer Science, Minor in Mathematics *Cumulative GPA: 3.88/4.00*

Relevant Coursework: Data Structures and Algorithms, The Structure and Interpretation of Computer Programs, Designing Information Systems and Devices, Discrete Mathematics, Great Ideas in Computer Architecture, Efficient Algorithms and Intractable Problems, Introduction to Artificial Intelligence

WORK EXPERIENCE

Back End Developer Intern, IBM Summer 2021

- Information Management Systems - DevOps Team
- Creating a wrapper API for Fyre (a hybrid cloud implementation) to assist with managing permissions for users
- Writing automation scripts to take 'snapshots' of embers on Fyre to back up users' code every month

Software Engineering Mentee, CodeDay, Remote June - August 2020

- Created a site review tool to manage and identify usefulness of a website's individual pages
- Worked with Django to create the site's API and the Scrapy Python framework to make a web crawler

Senior Mentor, Computer Science Mentors, Berkeley August 2020 - Present

- Leading two weekly sessions teaching students enrolled in CS70 topics in discrete mathematics and probability
- Creating test preparation resources like slideshows and worksheets to aide in student understanding of material

Lab Assistant, EECS16B: Designing Information Systems and Devices, Berkeley August 2020 - Present

- Assisting at three hour weekly labs with checkoffs, debugging, and student questions
- Helping students build a voice controlled car using hardware such as the Arduino Launchpad and using concepts such as least squares and band pass filters

LEADERSHIP & AFFILIATIONS

Electrical Team, ChemE Car August 2019 – December 2020

- Constructed a shoebox sized car powered by chemical reactions to go a specified distance
- Worked as a part of the electrical team on controlling the batteries and motors of the car using an Arduino Nano
- Designed a custom PCB and wooden box for the circuit to be held in

Academic Intern, CS 88: Computational Structures in Data Structures January 2020 – May 2020

- Worked as a weekly lab assistant for the introductory Python course
- Attended weekly meetings to review curriculum and finalize labs

Other Affiliations: Rewriting the Code (Fellow), Society of Women Engineers, Association of Women in EECS, Convergent at Berkeley

PROJECTS

Collayt - *Convergent At Berkeley - www.collayt.com*

- Working as a front-end developer for a site to keep students motivated during quarantine
- Technologies used: HTML, CSS, Bootstrap, Javascript

REVENT - *CodeLabs Mentorship (Github)*

- Developed the API and web crawler for a tool to help website owners manage individual web pages
- Technologies used: Python, Django, React, Docker

Gitlet - *CS61B Class Project (Cannot post code publicly)*

- Mini version control system which mimics Git including add, commit, remove, and merge commands
- Technologies used: Java