Cam Merz

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EDUCATION

Mills College MA, Interdisciplinary Computer Science, **GPA: 4.0** *Oakland, California*	Aug 2018 – May 2020
Mesa College Computer Science Courses *San Diego, California*	Jan 2018 – Aug 2018
UC San Diego BS, Bioengineering, Minor in Environmental Studies *La Jolla, California*	Sept 2011 – June 2016

PROGRAMMING SKILLS

Languages: Java, C++, C, Eclipse, experience with JavaScript, React, Python, JUnit, LaTeX
Tools: Git, GitHub, JetBrains IDEs (WebStorm, IntelliJ), Eclipse, Android Studio

RELEVANT COURSEWORK

Completed Courses: Data Structures + Algorithms, Theory of Algorithms, Mobile App Development (Android), Cryptography + Network Security, Accelerated Object Oriented Programming in Java, Intermediate Programming in C++, Intro to Programming in C, Introduction to Machine Learning, Discrete Math I + II
Current Enrollment: Theory of Computation, Computer Architecture + Assembly Language

EXPERIENCE

LendUp Software Engineering Intern *Oakland, California* — June 2019 – August 2019
- **Data Catalog**: Developed a data catalog and data discovery tool for internal use to support CCPA compliance. Implemented a Spring Boot REST API back end. Worked with team on development of React front end. Used Spring Data JPA for database access, as well as embedded SQL. Assisted with design of PostgreSQL meta-data database. Received and responded to feedback in code reviews. Did version control in GitHub. Completed unit and integration tests using H2 in-memory databases and mocked repositories. Presented completed project at end-of-summer demo.

Mills College Graduate Teaching Assistant + Peer Tutor *Oakland, California* — Aug 2018 – Present
- **Data Structures + Algorithms**: Providing one-on-one tutoring and office hours for students in the data structures and algorithms class. Graded assignments and read, debugged and provided feedback on Java code.
- **Theory of Algorithms**: Graded assignments for students and provided feedback. Lead weekly study group to support completion of assignments.

Mills Computer Club President *Oakland, California* — August 2018 - Present
- **President (2019-20)**: Leading officer team in establishing club goals and mission. Organizing club events and meetings. Completing necessary administrative tasks and coordinating with club faculty adviser.
- **Secretary (2018-19)**: Contributed to meeting ideas, coordinated with external parties, took meeting minutes, updated club resource notes.

PROJECTS

Android Application for Shopping List Generation: Developed app which pulls ingredients from recipes online and generated shopping list. Worked on a team of 3 to develop, implement, perform code reviews and do testing. (Mobile App Development, Java, 2019)

Open Source Contribution - Bug Fix for Habitica: Submitted Kotlin bug fix code for missing toast in open source habit-building project Habitica. (Mobile App Development, Kotlin, 2019)

Open Source Contribution - Typo Fix for Material Table: Submitted typo fix for open source React library Material-Table. (2019)

Contact List: Wrote a contact list program with partner. Used Java hash table and implemented separate chaining hash table from scratch. Wrote unit tests and completed code reviews with partner. (Data Structures + Algorithms, Java, 2019)

20 Questions Game: Wrote 20 questions guessing game by implementing a yes/no binary tree. (Intermediate Programming, C++, 2019)

UC San Diego Senior Design Project: Worked with NASA to develop astronaut healthcare device. Designed a contact pressure measurement system using Arduino and variable resistance sensor. Device works in conjunction with a negative pressure fluid shift countermeasure suit for use in long duration spaceflight. (UCSD Bioengineering Department, 2016)