DANIEL J. XIE

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EDUCATION

University of California, Berkeley   Aug 2015 – May 2019
B.A. Computer Science

WORK EXPERIENCE

Uniform Teeth | San Francisco, CA   Oct 2019 – Mar 2020
Software Engineer
- Responsible for developing new features in Golang for an Electronic Medical Records (EMR) web app used across 300+ patients and staff
- Developed and deployed a patient notifications project automating hundreds of daily notifications by integrating a third-party API, saving 1 hour+ of developer time each week
- Developed an algorithm to automatically match clinical files with a patient's EMR profile
- Used GORM (a Golang ORM library) to make efficient queries to our PostgreSQL database
- Designed comprehensive unit tests for each new feature using Ginkgo and Gomega testing frameworks

Sequoia Technologies, Inc. | Mountain View, CA   May 2018 – Aug 2018
Software Engineer Intern
- Implemented a Python algorithm to monitor quality of experience for 100+ video viewers, saving 5+ minutes of developer time per video stream
- Adapted to a fast-paced startup environment with broadly-defined goals and frequent due dates
- Became comfortable developing in a cloud-based Linux environment (AWS Cloud9) by running programs through terminal, navigating through directories, and managing version history using Git

Center for Science, Technology, Medicine & Society | Berkeley, CA   Sep 2018 – May 2019
Website Administrator and Media Coordinator
- Modernized the CSTMS WordPress website and designed marketing material using Illustrator and Canva
- Collaborated with a team of, graduate students, co-workers, and the CSTMS Assistant Director to host 10+ visiting scholar conferences per semester

PROJECTS

Operating System for x86 Architecture   Apr 2018
Operating system framework, written in C
- Created a functional operating system (PintOS) with thread, user program, and file system support in C
- Incorporated synchronization measures for systems tasks using locks, semaphores, and monitors
- Implemented a write-back buffer cache to improve the performance of reads and writes
- Utilized the GDB debugger to help team discover and resolve persistent bugs

Cal Actuarial League 8th Annual Case Competition   Apr 2017
Finalist and Best Presenter Award in the Health Track
- Analyzed the effects of the Affordable Care Act (ACA) on the US health insurance landscape using statistical analysis techniques and Microsoft Excel
- Collaborated with a team of four to prepare a written report and presentation for a panel of actuaries from established consulting and insurance companies

PROGRAMMING LANGUAGES & SKILLS

Proficient in
- Python
- Golang
- Java

Familiar with
- SQL
- Javascript
- HTML/CSS