

# 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*

- Used Golang to develop backend features for an Electronic Medical Records (EMR) system used by 100+ employees
- Automated 500+ daily patient notifications by creating a client to send EMR events and data to a third-party API service
- Trained non-technical colleagues on using and deriving insights from the newly integrated patient notifications service
- Led a project to add an "External Care" page to the EMR to give our 20+ treatment coordinators easy access to patients' external doctor contact information
- Developed an algorithm to automatically match electronic clinical files with patient profiles based on metadata
- Collaborated with the engineering manager to create a mentoring syllabus based on my experience being the youngest developer there by ~3 years
- Eagerly participated in setting up the office for monthly All Hands Meetings and frequently contributed to the snack bar

**Sequoia Technologies, Inc. | Mountain View, CA**

May 2018 – Aug 2018

*Software Engineer Intern*

- Wrote an algorithm to monitor quality of experience (QoE) for 100+ video viewers based on JSON-formatted data
- Adapted to a fast-paced startup environment with broadly-defined goals and frequent due dates
- Became proficient in Django and Python in order to display webcast statistics using Django views
- Worked inside of a Linux environment (AWS Cloud9) and became adept at using command-line arguments
- Queried viewer statistics data using Python Requests library, while self-educating about HTTP and REST API syntax

**Center for Science, Technology, Medicine & Society | Berkeley, CA**

Sep 2018 – May 2019

*Website Admin and Media Coordinator*

- As website administrator, was responsible for updating WordPress website with current events and staff profiles; also improved the site by adding a new "Alumni Spotlight" page and homepage sliding banner
- Used Adobe Illustrator and Canva to bolster CSTMS' campus presence by creating visually-appealing posters
- Handled AV needs for CSTMS colloquia, including audio and video recording and projector setup

## PROJECTS

**Data 100 Food Safety Project**

Feb 2019

*Cleaned and explored a dataset of food safety scores for restaurants in SF using Pandas*

- Manipulated Pandas dataframes and incorporated regular expression (regex) parsing within a Jupyter notebook environment to investigate facts about SF restaurants
- Used probability theory and several sampling procedures to make a variety of comparisons over different SF clusters
- Used the Seaborn library to create intuitive and aesthetic visualizations of relationships between variables

**Operating System for x86 Architecture**

Apr 2018

*Simple operating system framework, written in C*

- Created a functional operating system (Pintos) with thread, user program, and file system support in C
- Added 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

## PROGRAMMING LANGUAGES & TECHNOLOGY

- |          |                 |
|----------|-----------------|
| • Golang | • PostgreSQL    |
| • Python | • GraphQL       |
| • Java   | • ReactJS       |
| • C      | • Ruby on Rails |

## CERTIFICATIONS

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| • <b>HIPAA Awareness Training   2019</b><br><i>HIPAATraining.com</i> | • <b>Actuarial Exam P Passed   2017</b><br><i>Society of Actuaries</i> |
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