

Contact

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(LinkedIn)
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Top Skills

Python
Web Application Design
JavaScript

Languages

English

Certifications

Protecting Human Research
Participants Course

Honors-Awards

Ira and Kate Pohl Computers and
Society Award

Joe Rowley

Software engineer with a passion for healthcare!
Berkeley, California

Summary

My time has been spent working in several disciplines, but I'm most interested in healthcare. As a software engineer I've built web applications (both frontend and backend), data processing tools, and worked on code for microprocessors. I really enjoy building tools that turn complicated data into something more usable, such as an API endpoint, an interactive visualization or dashboard. As a hardware engineer I've designed a few PCBs. I've also worked extensively in teams, at times taking roles in leadership.

In my free time, I enjoy trail running, reading, and listening to music.

Experience

Curebase
Software Engineer
January 2019 - Present
San Francisco, California

I am a full stack software engineer and generalist. I use React, Nodejs, GraphQL, Postgres, and AWS managed with Terraform, to name a few tools.

Also I serve as the quality assurance manager, and helped create the Quality Management System (manual, policies, procedures, etc) at Curebase, which ensures we maintain compliance with different quality programs and regulations, such as HIPAA, GCP/ICH (Good Clinical Practices), and 21 CFR Part 11 (requirements around record submission to the FDA).

Independent Contractor for Healthcare
Dev Ops Engineer
October 2018 - November 2018 (2 months)

Worked with a small healthcare non profit on updating their infrastructure / CI/CD systems. Primarily used Ansible and AWS.

AgileMD
Software Engineer, Integration Lead

February 2018 - June 2018 (5 months)

San Francisco Bay Area

- I worked on IE8 compatible modern full stack web applications with unit tests. (Node, ES6, React, Mocha, Sass, Postgres, MongoDB)
- I developed a serverless idempotent data ingestion platform (AWS Lambda, AWS SAM, python2, node, AWS Aurora/Postgres)

Integrated Healthcare Association

Full Stack Web Engineer / Generalist

February 2016 - January 2018 (2 years)

I'm was one of 3 FTE engineers here, so I did a lot of everything. I built web based reporting portals, and the data pipelines (validators, loaders) that support them.

Tools I used include:

- Python (Django, Pandas, Numpy)
- Postgres (Accessed via Django ORM, SQLAlchemy, Raw SQL)
- On the frontend, React, Redux, Redux Saga, Highcharts

Bellus3D

Research and Development Consultant

August 2015 - December 2015 (5 months)

Los Gatos, CA

- Developed hardware prototypes for an experimental camera (circuit design and construction).
- Wrote various Python scripts for the Raspberry Pi and C for microprocessors.

University of California, Santa Cruz

Course Developer Assistant

September 2014 - March 2015 (7 months)

Santa Cruz, CA

I helped Phokion Kolaitis, the Chair of CS at UC Santa Cruz (at the time), create a new course, CMPS 185: Technical Writing And Communication In Computer Science. This involved researching related courses at other universities, developing curriculum and assignments, and creating a repository of interesting research papers and patents related to computer science.

UC Santa Cruz

Undergraduate Research Intern

July 2014 - March 2015 (9 months)

Santa Cruz, CA

I served as the lead engineer, designed a prototype of an experimental camera flash with 10 individually controlled high power LEDs.

For more info check out the links below:

<https://imgur.com/a/AzWaE>

https://github.com/joer14/Portable_RTI/

Sana.mit.edu

4 months

Programmer

February 2014 - October 2014 (9 months)

I'm was the lead software developer for the Sana Protocol Builder, a tool that allows clinicians to create medical algorithms that run on community health workers' smartphones in rural and low resource environments.

Guest Lecturer

July 2014 - July 2014 (1 month)

Vellore institute of Technology, India

I presented with a group from MIT at Vellore institute of Technology in India, and a gave a few lectures about the Sana medical platform, and web application engineering to undergraduates.

UC Santa Cruz

Teaching Assistant

March 2014 - June 2014 (4 months)

Baskin School of Engineering

I was teaching assistant for an undergraduate computer science course, CMPS 119: Software for Society under professor James Davis.

I wrote tests and quizzes, organized student groups, managed grades, and facilitated communication between students and project mentors from various NGOs.

Crown College, University of California, Santa Cruz

Residential Assistant

September 2012 - June 2014 (1 year 10 months)

Provided assistance, guidance and counseling to 75 college freshman and upperclassmen. Tried to keep them from doing anything too silly/dangerous. More seriously, I provided support to students and staff alike. I learned a lot about people, communication, and conflict mediation in this position.

Google

Student Ambassador

August 2013 - November 2013 (4 months)

I acted as Google's liaison to my university, educating students, staff and faculty about how to better use Google products.

Learning Support Services, University of California, Santa Cruz

Computer Technician

January 2013 - October 2013 (10 months)

I worked on a team that supports hundreds of computers on campus and the infrastructure that powers them. In addition, I developed an internal web application for tracking printer usage.

Google

Google Chrome Academy

June 2013 - June 2013 (1 month)

Mountain View, CA

Learned from industry experts about HTML5 and the latest web frameworks and technologies.

Developed a multiplayer game with a group that uses voice recognition for interaction and Google+ for authentication.

Millennium Alliance for Humanity and the Biosphere at Stanford

Web Master & Strategist

June 2012 - February 2013 (9 months)

Worked with developers and project leaders to develop a strategy for online growth and development, implemented and maintained both content and code on the site.

University of Wisconsin-Madison, Department of Computer Science

Intern

June 2010 - September 2010 (4 months)

I developed software with an undergraduate student to track laptops for the UW - Police Department.

Education

University of California, Santa Cruz

Bachelor of Science (B.S.), Computer Engineering · (2011 - 2015)

University of California, Santa Cruz

Bachelor of Arts (B.A.), Computer Science · (2011 - 2015)