

Joe Rowley

joe@funk.dog

joerowley.net
linkedin.com/in/joerowley

Education

BS, Computer Engineering, BA, Computer Science
University of California, Santa Cruz

Fall 2015

Software Experience

AgileMD

- *Software Engineer*

February 2018 – Present

Integrated Healthcare Association

- *Full Stack Web Engineer / Generalist*

February 2016 – January 2018

- Built data reporting portal for monitoring physician level progress across multiple large health organizations.
 - Django, React/Redux/Highcharts, Postgres on RDS, Ansible on AWS EC2
 - Data ingestion and report generation using Pandas
- Cost Atlas: Worked with another developer to create tool for visualizing health quality and cost disparities across California.
 - Flask, React/Alt.js/Highcharts, Pandas, Numpy, Fabric

University of California, Santa Cruz

- *Undergraduate Thesis*

March 2015 – December 2015

- Created a web application that predicts the ideal heparin dosage using existing models.
- Conducted a study to determine the feasibility of using a statistical drug dosing tool in a mock clinical setting.
 - Angular JS, D3.js, Python, Flask, Postgres, SQLAlchemy, Scikit-learn.

Sana, MIT

- *Developer, Educator*

February 2014 – October 2014

- Developed the Sana Protocol Builder, a web application that allows clinicians to create medical algorithms that run on community health workers' smartphones in rural and low resource environments.
- Lectured with a group from MIT at Vellore institute of Technology in India about the Sana medical platform, and web application engineering to undergraduates.

Hardware Experience

Bellus 3D — Los Gatos, CA

- *Consultant*

August 2015 – January 2016

- Developed hardware prototypes for an experimental camera.
- Wrote Python for Raspberry Pi and C for microprocessors.

University of California, Santa Cruz, CA

- *Undergraduate Research Intern*

July 2014 – March 2015

- Designed a prototype of an experimental camera flash with individually controlled high power LEDs.
- Required PCB design and layout using Cadence Allegro.

Side-Projects

Gadcalc

- Developed a gadolinium contrast agent dosage calculator for technicians and medical doctors.
- Built in Angular.js and Bootstrap.

Awards

Ira and Kate Pohl Computers and Society Award

May 2015

- Ira and Kate Pohl scholarship is to recognize and support outstanding undergraduate students who are committed to using computer science for social good.