Joe Rowley

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Education

BS, Computer Engineering, *BA*, Computer Science   Fall 2015
University of California, Santa Cruz

Software Experience

AgileMD
- *Software Engineer, Integration Lead*   February 2018 – June 2018

- Built IE8 compatible modern full stack web applications with unit tests.
  - Node, ES6, React, Mocha, Sass, AWS Aurora (Postgres), MongoDB
- Developed a serverless idempotent data ingestion platform.
  - AWS Lambda, AWS SAM, Python, Node, AWS Aurora (Postgres), MongoDB

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.

Side-Projects

Strava Song Syncer

- I love running and I love music, so I built an app to automatically keep track of what songs I listen to while I run.
- AWS lambda (Zappa), React, Redux, Flask, Dynamodb

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.