

Joe Rowley

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Healthcare Software Experience

Curebase, Inc

- *Software Engineer, Quality Assurance Manager*

December 2018 – Present

- Developed software and infrastructure to administer distributed clinical trials
 - AWS, RDS (Postgres), Terraform, Node, ES6, React, Sass
- Created a Quality Management System to ensure compliance with regulatory standards
 - HIPAA, 21 CFR §11 (FDA electronic record submission), Good Clinical Practice (GCP)
 - Conducted internal audits, wrote quality manual, policies, and standard operating procedures.

AgileMD, Inc

- *Software Engineer, Epic EHR 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
- 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, Lecturer*

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.

Education

BS, Computer Engineering, BA, Computer Science

Fall 2015

University of California, Santa Cruz

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.