Joe Rowley

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Healthcare Software Experience

Curebase, Inc
- *Head of Engineering*   February 2021 – Present
  - Hire, lead and manage a team of 15 fullstack engineers
  - Work with Product, Quality, and InfoSec teams to build Curebase's decentralized clinical trial platform
  - Work cross functionally with clinical operations, sales, customer success, and leadership to ensure project and product delivery

- *Software Engineer*   December 2018 – February 2021
  - Develop software and infrastructure to administer distributed clinical trials
    - AWS, RDS (Postgres), Terraform, Typescript/Javascript (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
  - 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.