Celena Chang

Software Engineer

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SUMMARY

Detail-oriented software engineer with over four years of experience developing well-tested full-stack applications in health informatics and translating product requirements into flexible and scalable technical solutions. High interest in refactoring, testing, and introducing new tools to ensure software is stable and future-proof. Motivated to work on high social impact projects and/or user-facing features.

SKILLS

Python | TypeScript | ReactJS | JavaScript | C# | .NET | HTML/CSS | Git | Agile (scrum) methodology

EXPERIENCE

SOFTWARE ENGINEER | FLATIRON HEALTH
August 2020 - Present | New York City, NY (Remote)
Clinical Trials team: Build systems that facilitate the capture and delivery of clinical trial data to trial sponsors.

- Designed and developed various patient data documentation features for the company's .NET EMR software, including the ability to save draft tumor assessments, that increased both usability and quality of patient data sent to clinical trial partners.
- Set up a testing framework using Playwright and Jest for the company's interoperable EHR patient data capture tool for clinical trials and increased test coverage for the Next.js application by 50%.
- Connected the interoperable tool with FHIR APIs so that users can import patient data from other EHRs into the app, increasing the amount of data the app ingests for clinical trials.

Flatiron Signal team: Build Signal, a care management web app where care coordinators can manage outreach by viewing a worklist of assigned patients, ranked by a risk stratification algorithm.

- Worked in a lean team of two engineers and a designer to develop and roll out in less than 6 months a feature in Signal that highlights to practitioners the emergency visit patients whom they have missed outreach for, which increased the product's value and helped finalize partnerships with 2 sites.

Enhanced Data Marts team: Manage and organize the ETL pipelines that build and deliver to pharmaceutical partners monthly datasets for a cohort of patients with a specific disease.

- Collaborated with internal teams on the UI and technical design of an in-house web app tool product managers can use to manage the patient data samples from clinical sites; initiated conversations to clarify product scope and requirements and parallelized the engineering work to increase efficiency.

SOFTWARE ENGINEER INTERN | FLATIRON HEALTH
June 2019 - August 2019 | New York City, NY

- Developed a patient search .NET web app using Elasticsearch, GraphQL, and ReactJS as part of the company's EMR software, increasing usability of the search feature for ~2500 clinicians.
- Integrated defensive programming and C# unit tests using NUnit and NSubstitute to mock and test the web app's Elasticsearch and GraphQL API connections.

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY
B.A. Computer Science, May 2020 | Minor: Food Systems | GPA: 3.76 | Upsilon Pi Epsilon CS Honor Society