

Alexander E Roberts

Personal Info

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Contact Information

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Senior Front End Engineer

Front End Engineer with 7 years experience working on mobile and desktop web applications across several frameworks. Experience in building multiple Software as a Medical Device (SaMD) features.

Work Experience

Google, San Francisco, CA | *Senior Software Engineer (L5)* | 02/2021 - 10/2023

- Worked cross-functionally with Quality, Regulatory, Product, and Legal teams to coordinate the development, testing, documentation, and release of Software as a Medical Device (SaMD) features to millions of users.
- Wrote and executed on transition plans for medically regulated web features from Ember.JS to Angular applications while iterating on existing Ember.JS implementation. Updated medically regulated Angular features to adopt updated Fitbit-specific design system.
- Lead planning and development of Fitbit-based foundational Angular components, services, and libraries to streamline development of web applications for additional features and teams.
- Developed and communicated deprecation plans for web-based Fitbit experiences.

Fitbit, San Francisco, CA | *Senior Software Engineer* | 07/2017 - 02/2021

- Lead frontend design and development of several medically regulated features built as Ember.JS webview applications. Work included design, implementation, ticket writing/planning, reporting, and release management.
- Worked with research and product teams to design, build, launch, and iterate on several fullstack features as external prototypes prior to their mobile releases. Audiences ranged from hundreds to millions of users.
- Implemented several desktop web pages in Fitbit's logged-in web application built in Ember.JS reaching tens of millions of users.

Fitbit, San Francisco, CA | *Software Engineering Intern* | 05/2016 - 08/2016

- Transitioned Fitbit's integration with Strava from a Redis-based job queue to RabbitMQ.

RetailMeNot, Austin, TX | *Software Engineering Intern* | 06/2015 - 08/2015

- Improved autocomplete experience by architecting SQL and Solr queries and updating existing PHP API interface. Collaborated with Product and Design to create and implement updated UI.

Education

University of Michigan - Ann Arbor, College of Engineering

August 2012 - May 2017

Masters of Science, May 2017, Computer Science Major – GPA 3.99/4.00

Bachelor of Science, Graduated May 2016 – Summa Cum Laude

Computer Science Major, Music Minor - GPA 3.98/4.00

Officer of Eta Kappa Nu (HKN) honor society

Programming Experience

Languages & Technologies

Javascript, Typescript, Ember, Angular, React, jQuery, HTML, Handlebars, Node, Sass/css, git

GDQ-Rate (<https://github.com/aeroberts/gdq-rate>)

Small react web app with Hasura-hosted graphql backend that allowed visitors to rate and chat about “speedruns” done as part of the SGDQ (<https://gamesdonequick.com/>) events.

LTT-to-Spotify (<https://github.com/marobs/ltt-to-spotify>)

Developed jQuery-based web app and python webserver to query the top 25 posts of reddit.com/r/listentothis, create a corresponding playlist on Spotify, and display a UI to manage the playlist/query additional songs.

University of Michigan Fall Career Fair iOS App

Project developed for the U of M Fall career fair allowing students to find which companies were in attendance, their location, and information around open positions.