MEGHA BINDIGANAVALE

meghab.prasad@gmail.com | (408)-981-5640 | San Francisco, Bay Area
Portfolio: https://meghabprasad.github.io/portfolio/ | GitHub: meghabprasad | LinkedIn: megha-bindiganavale

Full-Stack Software Engineer with a background in medical device development. Experience working with object-oriented and data-driven programming (Lua and Matlab) and eager to build impactful applications.

TECHNICAL SKILLS

<u>Languages</u>: JavaScript | CSS | HTML | Lua | MATLAB | C | Python | Unix/Linux
<u>Applications</u>: Bootstrap | Ajax | Node | MVC | Responsiveness | Express | SQL | Sequelize | MongoDB
Firebase | Git | Heroku | Axios | React | jQuery

APPLICATIONS BUILT

PEAK | Github | Site | *Stanford Hackathon Winner*   **February 2019 | 4-Person Team**
Virtual interview prep platform that boosts self-confidence through mock interviews presented using the Oculus Rift headset and immediate performance feedback on a web application
- Integrated API from Google Cloud Platform using Python to run Natural Language Processing analytics on user responses. Designed 100% of the virtual reality environment using Unity.
- Tech Used: Oculus Rift, Python, C#, Google Cloud Platform (NLP), APIs

Key Accomplishments
- Recognized as one of the 8 Overall Finalists and recipient of Disney Best Entertainment Hack at TreeHacks

GYMATE | Github | Site   **July 2019 | 4-Person Team**
Full Stack Application that serves as a social media platform for gym-goers. Allows users to add routines to their profiles, add stats, and compete with randomly matched buddies.
- Integrated backend database (MySQL) to the frontend. Styled 50% of the frontend, implemented Okta OIDC authentication
- Tech Used: Okta, AWS S3 Buckets, HTML/CSS, JS, MySQL, Handlebars, Sequelize, Materialize

FINFO | Github | Site   **July 2019 | 3-Person Team**
A web application that serves as a one-stop shop for all publicly available financial information
- Integrated Currency Exchange API, styled 60% of the UI design, integrated Firebase authentication
- Tech Used: Firebase, HTML/CSS, JavaScript, Ajax, Bootstrap

JS NEWS SCRAPER | Github | Site   **July 2019 | Solo Project**
Full Stack Application that allows users to scrape the ECHO JS website for latest news articles on JavaScript, save/unsave articles, and add/remove notes on each article.
- Architected, built, and styled the full-stack application. Integrated backend database (MongoDB) with the frontend (HTML/CSS/JS). Scraped website using Cheerio and Axios.

PROFESSIONAL EXPERIENCE

Stanford School of Medicine | Research Assistant | Palo Alto, CA   **June 2018 – Present**
- Configured and validated the RETeval diagnostic device to retrieve pupil diameter measurements in addition to the currently recorded retinal responses.
- Used Lua for programming various flash protocols in the device. Utilized RFF extractor for data extraction and MATLAB/R for data cleansing and analysis. Segmented pupil images using MATLAB.

Key Accomplishments
- Spearheaded clinical testing to implement developments to the pupillometer which proved to more cost-efficient, versatile, and eliminated need for operator expertise compared to the commercial devices.
- Presented research developments at national conferences and obtained manuscript co-authorship.

EDUCATION

UC Berkeley Ext. | Full-Stack Coding Bootcamp | San Francisco, CA   **April – August 2019**
- Intensive coding boot camp dedicated to designing and building full stack applications

UC Davis | Davis, CA   **Sep 2015 – June 2018**
- Bachelor of Science, Neurobiology, Physiology, and Behavior   **Magna Cum Laude, GPA 3.75**