Priyam Mohanty

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EDUCATION

University of California, Berkeley — Graduating May 2021
B.A. Computer Science — GPA: 3.8
Relevant Coursework: Structure and Interpretation of Computer Programs, Data Structures and Algorithms, Introduction to Statistics in Biology and Health, Foundations of Data Science, Linear Algebra, Differential Equations

SKILLS

Languages: Java, Python, JavaScript, HTML, CSS, SQL
Technologies/Frameworks: Django, Flask, Git, React, React Native, Redux, Adobe Creative Suite

EXPERIENCE

Software Development Intern — Aug. 2018 – Present
UC Berkeley School of Public Health
- Work on scalable record linkage of Chinese character data, designed to efficiently handle ~800k pairs of data
- Convert R scripts into Python to build user-friendly, distributable software for health researchers worldwide

Software Engineering Intern — May 2018 – Aug. 2018
Zoetic – Robotics Firm Bringing AI-powered Empathy and Personality Engines to Robots
- Developed object recognition and communication features for robots using Google Cloud Vision APIs
- Implemented Neural Style Transfer combined with extra image processing to portray robotic empathy
- Created an in-house API for robots to accurately recognize and react to facial expressions in milliseconds
- Manipulated and connected servos to control and test robot movement using Arduino and C++

PROJECTS

Fitmoh | *fitmoh.com*

Web App | *Python, Django, JavaScript, jQuery, REST APIs, AWS, Heroku, PostgreSQL*
- Developed a body tracker that uses the Harris-Benedict Equation with extra calculations to predict the user's BMR and TDEE more accurately than any TDEE calculator online
- Developed a secure token-based REST API for other applications to connect to Fitmoh user data
- Deployed to Heroku, with image-hosting outsourced to AWS S3. Over 400 commits and counting.

Mobile App | *React Native, Redux, React Navigation, REST APIs, SQL*
- Developed a mobile body tracker in React Native that connects to Fitbit, Nutritionix, and Apple Health APIs
- Designed screens following UX design guidelines, along with VictoryCharts to visualize data responsively
- Utilized Redux and a custom-built REST API to streamline the user experience and state across platforms

TunePrimer | *React, HTML, CSS, Spotify API*
- Constructed a single-page application (SPA) to display an artist's top albums, styled with CSS Flexbox
- Utilized Spotify's Search API to allow the user to play a demo of the music in-app

RESEARCH

Research Assistant — Aug. 2018 – Present
UC Berkeley, Haas School of Business, Levine Lab | hygieneheroes.berkeley.edu
- Design accessible curriculums for respiratory infections and sanitation for use in Chennai, India
- Brainstorm and pilot ideas for changing and sustaining health-related behaviors among children
- Develop the website for Hygiene Heroes, a curriculum to teach preventative health in underprivileged regions

Research Assistant — Aug. 2017 – Aug. 2018
Haas Behavioral Lab
- Ran psychology research trials for Dr. Juliana Schroeder involving human logic, behavior, and interactions
- Doubled efficiency by increasing participants per session from 3 to 6. Ran 250+ participants/month