Priyam Mohanty

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EDUCATION

University of California, Berkeley — Graduating May 2021
B.A Computer Science — GPA: 3.77
Relevant Coursework: Data Structures, Algorithms, Linear Algebra, Artificial Intelligence, Discrete Math and Probability
Foundations of Data Science, Computer Architecture, Designing Information Devices and Systems

PROFESSIONAL EXPERIENCE

Software Engineering Intern — May 2019 – August 2019
ServiceNow

- Designed real-time, front-end components in React, connecting to the backend using GraphQL subscriptions
- Reduced synchronization latency of ServiceNow's Agent Workspace platforms by 300% using Java APIs and JavaScript
- Created a customizable state management tool in JavaScript using directed graphs as a side project
- Reduced platform synchronization errors by 100% by implementing an algorithm to detect cycles in graph data structures
- Wrote functional tests for everything I built with over 90% code coverage, using JUnit (Java) and Jest (JavaScript)

Software Engineering Intern — May 2018 – August 2018
ZoeticAI – Robotics Firm Bringing AI-powered Empathy and Personality Engines to Robots

- Reduced robot processing load 60% by building a Python Flask API for robots to recognize and react to facial expressions
- Developed object recognition features for robots with a 95% success rate using Google Cloud Vision APIs and ROS
- Implemented Neural Style Transfer in Python to process images in real-time for the robot's "dreaming" feature
- Manipulated and connected servos to control and test robot movement using Arduino and C++

SOFTWARE PROJECTS

Fitmoh | *fitmoh.com, iOS, Android (Available on App Store and Play Store)*

Full-Stack Fitness Web Application | *Python, Django, JavaScript, React, Django REST Framework, Heroku, PostgreSQL*

- Developed a body-tracker to track exercise, weight, calories, sleep, mood, and body measurements all in one place
- Built the database schema for over 25 data models, keeping database space and query efficiency in mind
- Designed a secure token-based REST API to properly create, read, update, and delete data from any device
- Configured and deployed to Heroku using PostgreSQL, with over 50 daily users of the application

Cross-Platform Mobile App | *React Native, Redux, RESTful APIs*

- Developed the mobile app for Fitmoh in React Native following Apple's Human Interface guidelines
- Utilized Redux, Axios, and the custom-built Fitmoh REST API to streamline state across screens and platforms

Concurrent Cached File Server | *Go (Golang)*

- Implemented a simple file server with a LRU cache, using Go channels for multithreaded performance

Nutrition Tracking Chatbot | *NodeJS*

- Built a nutritional food tracking chatbot on Facebook Messenger that uses Google Cloud Vision and Nutritionix APIs to recognize foods, either through picture, text, or barcode, and provide detailed nutritional information

Unofficial MyFitnessPal Database API | *Python*

- Developed an unofficial API for MyFitnessPal (MFP) that allows users access their MFP data programmatically
- Implemented a persistent cache for MFP food database scraping, improving performance by 200%

Data Labeler | *Swift, Firebase*

- Built an iOS app for users to label data and earn money from companies that need labeled machine learning data

SKILLS

Languages: Java, Python, JavaScript, HTML, CSS, SQL, R, Swift, Go (Golang)

Technologies/Frameworks: Django, Flask, Git, React, React Native, Redux, NodeJS, AJAX, REST APIs, GraphQL, Firebase