

# Priyam Mohanty

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## EDUCATION

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**University of California, Berkeley**

*B.A. Computer Science*

Graduating May 2021

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

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**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

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

**Full-Stack Fitness Web Application | *Python, Django, JavaScript, 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%

**Amazons Board Game | *Java***

- Developed the game with an AI opponent using alpha-beta pruning and minimax algorithms to play competitively

## SKILLS

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

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