

# Brandon Foley

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Digital Portfolio: <https://bfoley05.github.io/>

## EDUCATION

### CHAPMAN UNIVERSITY

*Bachelor of Computer Science*

Orange, CA

August 2023 - May 2027

**Awards:** Provost List (2023-2024), Provost Scholarship, California Scholarship Federation recipient, Hispanic Scholarship Fund Scholar

**Relevant Coursework:** Data Structures, Data Communications and Computer Networks, Database Management, Object-Oriented Programming, Python Programming, Linear Algebra and Differential Equations, Multivariable Calculus, Unix/Linux intro, Engineering: Foundations Design and Fabrication, Discrete Mathematics, Statistics, Physics

## SKILLS

**PROGRAMMING LANGUAGES:** C++, Java, Python, HTML, CSS, JavaScript, SQL

**SKILLS:** Github, Jenkins, Docker, Unix, Linux, Excel

## EXPERIENCE

### FRONT-END ENGINEERING INTERN

Manhattan, NY

*Tech Startup - Munch Insights - Remote Job*

April 2024 - June 2024

- Led the development of the front-end of a website for their restaurant, from the product list to add to cart
- Utilized HTML and CSS to develop the front-end and TypeScript for connecting to the backend and managing states, connected by Svelte.
- Collaborated with the CEO, and mentored by VP of engineering throughout development

### WINNER OF CHOC AWS DATATHON

Orange, CA

*Lead on model development*

May 2024

- Cleaned a real dataset with healthcare data to prepare for using it within a model
- Utilized python and its many libraries to create neural networks, linear regression, and random forest models to try and make the best use of the data that we could
- Presented in front of hundreds of PHD, Masters, doctors, and industry professionals about our findings

### WINNER OF CHAPMAN AMAZON WEB SERVICES DEEPRACER EVENT

Irvine, CA

*Chapman students and CHOC employees*

March 2024

- Developed a reward function to develop the fastest car around a track
- Used Python and AWS to develop and test the reward function
- My model generated the fastest lap time out of all participants

### LA HACKS HACKATHON

Los Angeles, CA

*Lead on model use and front-end functionality*

April 2024

- Led the development of an innovative project aimed at using AI technology to analyze various factors of a person's body, such as shoulder width, body fat percentage, and body structure, to generate personalized workout materials.
- Developed two neural networks which we integrated into our website, one utilizing OpenCV and the other leveraging Google's Gemini AI.
- Created a Python-based website utilizing REFLEX to serve as both the frontend and backend of the project.

### LEGOLAND CALIFORNIA LIFE GUARD

Carlsbad, CA

*Lead Lifeguard, Ride operator, Part-time/Seasonal*

June 2021-August 2024

- Developed lifelong skills, including CPR and other medical necessities
- Teamwork and communication skills with guests and co-workers to make a welcoming environment

## PROJECTS

### WEB DEVELOPMENT PORTFOLIO

January 2024

- Developed a comprehensive website to showcase my programming projects
- Used languages such as HTML and CSS for frontend development
- Implemented background animation for a dynamic user experience in JS

### SECURE MEDICAL DATABASE SYSTEM

November-December 2023

- Developed a comprehensive medical database system using secure password authentication
- Implemented distinct user roles for doctors, patients, and pharmacists for access to a portal
- Established secure access protocols, allowing each doctor access only to the details of their assigned patients, prioritizing data privacy and compliance.
- Integrated password security measures to safeguard sensitive medical information

### GARMIN WATCH API ANALYSIS

October 2023

- Developed a Garmin Watch API integration using multiple classes, emphasizing object-oriented design
- Extracted and processed data from Garmin's CSV files, showcasing practical data retrieval skills

## INVOLVEMENT

**CODE THE CHANGE PRESIDENT:** Host weekly meetings and help create websites for non-profits and clubs

**AI IN BIOLOGY RESEARCH:** Using supercomputers to run tests related to proteins and protein design as well as mutations within proteins

**AI CLUB EXECUTIVE:** Help run meetings and present one AI aspect to the members once a semester

**TRACK AND FIELD/POLE VAULT:** DIII Pole Vault, time management between track and classes, teamwork between athletes, discipline and commitment to train every day and show improvement throughout the year

## FUN FACTS

- Huge traveler, National Park enthusiast, music - french horn, trumpet, active in both the gym and sports, thrill-seeker