

Brandon Foley

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

EDUCATION

CHAPMAN UNIVERSITY

Bachelor of Computer Science

Orange, CA

August 2023 - May 2027

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

Relevant Coursework: Data Structures, Object-Oriented Programming, Python Programming, Linear Algebra and Differential Equations, Multivariable Calculus, Unix/Linux intro, Engineering: Foundations Design and Fabrication, Discrete Mathematics

SKILLS

PROGRAMING LANGUAGES: C++, Java, Python, HTML, CSS, JavaScript

SKILLS: Github, Jenkins, Docker, Soldering

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

EXPERIENCE

FRONT-END ENGINEERING INTERN

Manhattan, NY

Tech Startup - Munch Insights - Remote Job

April 2024 - Present

- Led the development of the front-end of a website for their restaurant including the ordering page and all functionality
- Utilized HTML and CSS to develop the frontend 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 this data in 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
- Received prizes for the fastest car 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 large language models integrated into our website, one utilizing OpenCV and the other leveraging Google's Gemini AI.
- Created a Python-based platform called REFLEX to serve as both the frontend and backend of the project.

INVOLVEMENT

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

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

HISPANIC SCHOLARSHIP FUND SCHOLAR: Active member in the Hispanic community, and honor of being a member of HSF

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

- Involved in ceramics, huge traveler, National Park enthusiast, music - french horn, trumpet, guitar, active in both the gym and sports, thrill-seeker