Brandon Foley

(760) 814 3013 | brandonfoley05@gmail.com | LinkedIn Profile: www.linkedin.com/in/brandon-foley-a5975b290

Digital Portfolio: https://bfolev05.github.io/

EDUCATION

CHAPMAN UNIVERSITY Orange, CA

Bachelor of Computer Science

August 2023 - May 2026

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

EXPERIENCE

HEAD RESEARCH ASSITANT

Orange, CA

June 2024 - Present

Chapman University - AI in Biology

Led a group of students in our efforts of protein folding and protein design using AI models

Utilize supercomputers to run tests related to proteins and protein design as well as mutations within proteins

FRONT-END ENGINEERING INTERN

Tech Startup - Munch Insights - Remote Job

Manhattan, NY 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
- Collaborated with the CEO, and mentored by VP of engineering throughout development

WINNER OF CHOC AWS DATATHON

Orange, CA May 2024

Lead on model development

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 March 2024

Chapman students and CHOC employees

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

April 2024

- Lead on model use and front-end functionality 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 CALÍFORNIA LIFEGUARD/RÍDE OPERATOR

Carlsbad, CA June 2021-August 2024

Lead Lifeguard, Ride operator, Part-time/Seasonal

Developed lifelong skills, including CPR and other medical necessities

Teamwork and communication skills with guests and co-workers to make a welcoming environment

PROJECTS

INJURY PREVENTION AI PROGRAM

August 2024-Present

- Developed a program using Garmin watch data to help predict and prevent injuries post-workout
- Created an AI to take in the data and predict factors that could lead to injury and analyze the workout as a whole
- Worked in a team to develop a frontend for our project where we can have users upload the data and analyze it

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 DATĂBASE 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

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 one AI aspect to the members once a semester

TRACK AND FIELD/POLE VAULT: DIII Pole Vaulter, 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