Brandon Foley

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

EDUCATION

CHAPMAN UNIVERSITY **Orange, CA**
Bachelor of Computer Science 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 LIFEGUARD **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

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 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

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 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