Brandon Foley

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

EDUCATION

CHAPMAN UNIVERSITY   **Orange, CA**
Bachelor of Computer Science   August 2022 - May 2025
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

AUTONOMOUS CAR   November-December 2023
- Engineered and assembled an autonomous car from scratch, demonstrating proficiency in hardware design by hand-wiring components and utilizing Arduino for control
- Implemented obstacle avoidance system using five ultrasonic sensors, showcasing a deep understanding of sensor integration and environmental perception
- Developed the entire software stack, including writing custom code for autonomous navigation, resulting in a fully functional self-driving car capable of navigating without collisions

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

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

LEGOLAND CALIFORNIA / LIFEGUARD   **Carlsbad, CA**
Lead Lifeguard   June 2021 – August 2023
- Developed life-long skills, including CPR and other medical necessities
- Teamwork and communication with guests and co-workers to make a welcoming work environment
- Committed to keeping up skills and performing rescues when necessary.

INVOLVEMENT

CODE THE CHANGE: Participate in weekly meetings and help create websites for non-profits and clubs
HISPANIC SCHOLARSHIP FUND SCHOLAR: Active member in the Hispanic community, and honor of being a part of HSF
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

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