Brandon Foley

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EDUCATION

Bachelor's degree in Computer Science   August 2023 - May 2027

Chapman University, Fowler School of Engineering, Orange, CA   GPA: 3.84

Major GPA: 4.0

Provost List → 3.8 GPA or higher

Provost Scholarship: Academic Merit Scholarship based on grades and test scores (2023 to present)

California Scholarship Federation recipient

Hispanic Scholarship Fund Scholar

Participant in Track and Field

Participant in Computer Science club, Outdoors club, and Rock Climbing club

San Marcos High School   `   August 2019 - June 2023

GPA: 4.2

Silver Honor Roll 4-year recipient → GPA 3.75 or higher during high school

National Honor Society VP and member

AP Scholar with Distinction: 5 on AP Calc AB, BC, and Computer Science A(java)

Participant in Track and field and Marching Band

CODING PROJECTS

Web Development Portfolio   January 2024

- Developed a comprehensive website to showcase my programming projects
- Used languages such as HTML, CSS for frontend and Python/Flask for backend
- 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 data 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 effective data retrieval skills

PROFESSIONAL EXPERIENCE

Legoland California/ 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

SKILLS

- Programing(Java, C++, Python, HTML, CSS, JavaScript), Github, Jenkins, Docker

CLASSES TAKEN

- **Computer Science**: Python, Java, C++, Data Structures (IP)
- **MATH:** Calculus up to multivariable, Discrete math (IP), Linear Algebra (IP)