

BRANDON CORONA - BHARDWAJ

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EDUCATION

University of California - Santa Cruz

Bachelor's, Computer Science

September 2021 - March 2025

GPA: 3.4

PROFESSIONAL EXPERIENCE

Arizona Department of Environmental Quality

Drupal Developer

Phoenix, AZ, USA

November 2023 - June 2024

- Collaborated with a cross-functional team of 3 to gather requirements, provide updates, and ensure project goals were met.
- Built a Drupal 10 block that delivered an responsive graphic suggesting pollution prevention methods using JS and Twig.
- Developed and tested a custom page in D10 using PHP to dynamically fetch and parse air quality data from external sources.
- Created a testing matrix using a JSON file to validate pre-existing codebases.

University of California - Santa Cruz

Web Developer

Santa Cruz, CA, USA

June 2022 - November 2023

- Developed dynamic web apps which attracted over 100,000 users using HTML, CSS, and Drupal 8.
- Optimized page visits through SEO techniques and metadata enhancements.
- Constructed SQL queries to filter thousands of data records, curating mailing lists for major campus events.
- Maintained and updated relational databases, managing information like student details, campus majors, and department data.

PROJECTS

UXly Blockchain Analytics - [Link to project](#)

- Built a blockchain analytics web app using React and TypeScript, with interactive visualizations created using D3.js.
- Implemented the Louvain algorithm to detect sybil nodes and identify communities in blockchain networks.
- Integrated Google and GitHub authentication using Auth0 with Firebase for managing user sessions.
- Collaborated with developers and product owners to align with requirements and project goals.
- Enabled CSV data uploads for custom analysis, processed with Python

ThruHiker - [Link to project](#)

- Developed ThruHiker using Swift, an IOS app that allows users to track their position virtually on real-world trails.
- Implemented Apple health kit integration which requested the User's current mileage.
- Utilized Python to scrape through JSON files containing trail data provided by AllTrails.
- Provided map visualization and recent photos based on virtual trail position using MapBox and Flickr API.
- Utilized Firebase for real-time data synchronization which is used for the leaderboard system.
- Collaborated with developers, following typical scrum methodologies.

Player Analysis - [Link to project](#)

- Developed a Python script that analyzes player data and generates radar charts to visualize player strengths across categories like passing, shooting, and dribbling.
- Used Pandas to process statistical data and Matplotlib for radar chart generation.
- Contributed example data from USL and documentation for easy usage and contributions. Supported CSV and XLSX input files for data.

Multi-threaded HTTP Server - [Link to project](#)

- Designed and implemented a multithreaded HTTP server to handle concurrent client requests efficiently using C.
- Utilized thread-safe queues and read-write locks for synchronized access to shared resources.
- Developed core features including request parsing, task management, and resource allocation.
- Implemented error handling to manage edges cases, such as server down time or conflicting reservations.

SKILLS

Skills: Data Structures & Algorithms, Python, TypeScript, JavaScript, Swift, C/C++, Firebase, SQL, Git, Webflow, Figma, Drupal, Wordpress, React, HTML/CSS, Sass, Twig, PHP, REST API, Bootstrap, Docker, Kubernetes, Vercel, Swift, Jira