Karla D. Vasquez

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EDUCATION

University of Southern California　　　　　　　　　　　　　　　　　　　Los Angeles, CA
B.S. Computer Engineering and Computer Science　　　　　　　　　　　**Expected May 2025**

- **Coursework:** Programming C++, Data Structures and Object-Oriented Design, Full-Stack Development, Algorithms and Theory, Internet of Things, Embedded Systems, Linear Circuits
- **Involvement:** Association for Computing Machinery, Women in Engineering, Viterbi Impact Program, AthenaHacks, Creative Labs, Bay Valley Tech

SKILLS

- C++/C, Java, MySQL, JavaScript, Python, PHP, ReactJS, Node.js, HTML/CSS, Verilog
- Linux, VS Code, Git, GitHub, Flask, Figma, Bootstrap, jQuery, InShot, Arduino, RaspberryPi

PROJECTS

Pipwell (JavaScript, React, MySQL, Node.js)　　　　　　　　　　　**July 2024 - Present**

- Developing an interactive health app enabling users to track metrics, set goals, and form connections

Find My Church API (Python, Flask, Bootstrap, SQLite)　　　　　　　　　　**June 2024**

- Engineered an API with Flask to provide real-time, updated information for over 30 churches in Monterey County, with a responsive web interface to aid users with church searching
- Ensured accurate church information was managed with SQLite for efficient data storage and retrieval

Pet Adoption Site (JavaScript, PHP, MySQL, jQuery, Bootstrap)　　　　　　**April 2024**

- Constructed a custom database website with MySQL and PHP to allow full create, read, update, and delete functionality for storing user's pet adoption records
- Created a login system enabling user authentication and session storage for respective accounts

AthenaHacks Participant (JavaScript, jQuery, Figma)　　　　　　　　　**March 2024**

- Integrated USDA FoodData API into responsive website that tracks user's donations through cherries bought
- Presented project in a science fair format to Bloomberg engineers, faculty, and organizers of AthenaHacks

Amazon (C++)　　　　　　　　　　　　　　　　　　　　　　**November 2022**

- Implemented an Amazon-like database system in C++, offering services to multiple customers through File IO
- Demonstrated proficiency in data structures, optimizing online functions such as cart management, product addition and removal, and purchase tracking

EXPERIENCE

Bay Valley Tech Digital Design Bootcamp　　　　　　　　　**May 2024 – August 2024**

- Completed an intensive bootcamp focused on UI/UX design fundamentals, including user research, wireframing, prototyping, and visual design

Full Stack Developer at University of Southern California　　　　　**August 2023 – Present**

- Spearhead the design of "Pip Well", a health app interface, to bring to life a PhD student's start-up idea
- Collaborate closely with PhD student to conduct biweekly progress assessments and implement improvements

Student Researcher at ANRG Summer Research Academy　　　　**May 2023 – August 2023**

- Committed 10 hours each week to in-depth research on AI's potential to enhance personalized learning
- Discussed weekly advancements in observational and qualitative data gathered through interactions with the AI model with advisor
- Selected to present research findings and future development plans at the IFoRE 2023 Research Forum

ADDITIONAL INFORMATION

- Languages: English (Native), Spanish (Native),
- Interests: Maintaining Duolingo 700+ Day Streak, Swimming, Reading, Writing, Asian Dramas
- Certifications: Freecodecamp JavaScript Algorithms and Data Structures