

Valerie Wong

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EDUCATION

University of California, Riverside

June 2024

Bachelor of Science in Computer Science

GPA: 3.45

- Relevant Coursework: Data Structures, Algorithms, Assembly Language, Software Construction, Logic Design, Embedded Systems, Computer Security

SKILLS & CERTIFICATIONS

Operating Systems/Software: Next.js, QT Creator, Unity, Github, VS Code, IDA

Languages: C++, C#, Python, HTML, CSS, Javascript, Typescript, React.js.

Certifications: SQL for Data Science (UC Davis 2023), Introduction to Front-End Development (Meta 2023)

WORK AND PROJECT EXPERIENCE

UCR, Information Technology Solutions, Riverside, CA

April 2023 - Present

ITS Student Assistant Help

- Diagnose and resolve technical issues, provide guidance, and troubleshoot software and hardware issues
- Maintain accurate records of technical issues, resolutions, and user interactions

University of California, Riverside

bitByBIT Full Stack Developer | *Javascript, Firebase, Next.js, Tailwind CSS*

June 2023 - September 2023

- Worked alongside 10+ developer team to develop an intuitive website, with strong safety/authentication measures
- Utilize Firebase to develop robust safety and user authentication mechanisms

Driver Interface and Telemetry Engineer | *C++, QT Creator, Arduino*

July 2022 - May 2023

- Worked alongside 10+ developer team to create QT C++ GUI application to manage vehicle status
- Developed wireless telemetry to transmit and receive radio data for Grafana visualization with Arduino

PROJECTS

Space Invaders (2022) | *C++, Embedded Systems*

github.com/vwong031/CS120B-SpaceInvaders

UCR

- Remade a simplified version of the space invaders video game using the Arduino Uno
- Utilized C++ to implement the game visuals such as the characters onto the Nokia Replacement LCD Screen
- Leveraged the Arduino's input/output peripherals to implement game functionalities, such as the game controller

Solar Car Driver Interface (2022) | *C++, QT Creator*

github.com/vwong031/DriverInterface

IEEE Club, UCR

- Utilized QT Creator and C++ to implement the gear class, including icon integration and button functionality
- Configured Pi wiring for the horn class, enabling the horn to activate when digitalRead is true and deactivate otherwise
- Provided the vehicle's drivers and operators with a comprehensive and user-friendly platform that facilitated real-time monitoring and control

Solar Car Telemetry (2023) | *Python, Embedded System*

github.com/vwong031/influx-aggregator

IEEE Club, UCR

- Employed Python to create a serial scanner for data retrieval from Arduino to InfluxDB
- Established Grafana-InfluxDB connectivity and crafted data visualization dashboards
- Established a robust communication framework that facilitated the exchange of telemetry data between the solar car and our monitoring system

bitByBIT Website (2023) | *Javascript, Firebase, Next.js, Tailwind CSS*

github.com/vwong031/bitByBIT

ACM Club, UCR

- Authenticated the "Update User Info" API route using Next.js to reduce response time
- Incorporated state management for the results tab, facilitating the inclusion of loading and running states
- Employ technologies such as Javascript and React.js to ensure a visually appealing and responsive frontend design
- Utilize Firebase to develop robust safety and user authentication mechanisms

ACM Website (2022) | *Javascript, Next.js, ESLint, Prettier*

github.com/vwong031/acm-hydra

ACM Club, UCR

- Facilitated profile card navigation by efficiently utilizing data arrays and rendering the profile component
- Utilized React.js and Javascript to build the title and description on the home page with an accompanying image
- Utilized Next.js and Tailwind CSS to create an intuitive, visually appealing, and responsive design