Richard Duong

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EDUCATION

University of California, Riverside
Bachelor of Science in Computer Science - Expected June 2022
Coursework - Data Structures and Algorithms, Software Design, Computer Networking, OS Design

PROJECTS

Stoctistics | Personal Database Project   Jun 2020 - Present
- Scheduled a backend service that maintains and keeps historical ticker and options figures up to date, written in **Python3**, on the **MongoDB** database, and automated with **Cron**
- Parallelized 200k+ daily multithreaded requests to yahoo finance and updates to the database to meet real time analytics demands for 500+ stocks within < 1 minute interval updates per cycle
- Visualized database aggregations using **Jupyter** and optimized **CRUD** operations with efficient queries

Pulse Sensor | Individual Hardware Project   Jan 2020 - Mar 2020
- Interfaced infrared sensor to record oscillations from blood contractions
- Filtered anomaly values and minimized ambient lighting with tubing
- Programmed the Atmel PU microcontroller in **C** with **Atmel Studio**

Shape Generator | Team Software Project   Mar 2018 - Jun 2018
- Designed a login UI and canvas window using the **Qt** framework
- Led a 4-man team as scrum master utilizing **Scrum Agile** methodology

WORK EXPERIENCE

Vex Robotics Event Partner | Vex Robotics   Feb 2018 - Present
- Supervised and hosted an annual robotics competition at Lakeside High of 300+ attendees
- Directed a team of 5 to manage the tournament software in a timely manner by resolving technical errors and minimizing matchmaking delays, resulting in a 14% increase in scheduling efficiency
- Arranged and formatted the technical equipment such as **Raspberry Pis**, servers, fields, and displays

Office Assistant | TicketShine, Inc.   Jun 2019 - Sep 2019
- Developed various automation tools for company use such as a daily email system
- Fulfilled $10,000+ every week and priced product competitively against other vendors
- Coordinated with a team of 15 for live price analysis on bulk buy orders during volatile hours

Math Tutor | Irvine Valley Community College   Jan 2019 - May 2019
- Worked with college students and aided them in various topics of math such as Algebra, Trigonometry, Calculus, Multivariable Calculus, Differential Equations, Linear Algebra, and Statistics

SKILLS

Programming - C++, C, Python, Javascript, HTML, CSS
Other Technicals - MongoDB, Docker, jQuery, Latex, Bash, Git Workflow
Tools - Jupyter, MS Visual Studio, Atmel Studio, Eclipse

VOLUNTEER/INVOLVEMENT

Volunteer Web Design Team | Keiro Pacifica Community Advisory Board   Sep 2020 - Present
- Spearheaded development for a website advocating for Japanese-American seniors living in LA
- Employed accessibility, analytic, and SEO strategies, improving site visibility on Google and Bing
- Orchestrated team meetings with stakeholder and finalized design decisions as project lead

Vietnamese Student Association | University of California, Riverside   Sep 2019 - Present
- Assisted in setting up Vietnamese Culture Night, an annual culture show with 600+ attendees

Buddhist Scouts | GDPT Chanh Phap   Jun 2015 - Aug 2019
- Taught fundamental Buddhist Philosophy to a class of 10 students between ages 7-12
- Supervised a lion dance team of 15 dancers to perform at festivals, ceremonies, and weddings