# RICHARD DUONG

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## EDUCATION

**Bachelor of Computer Science**

University of California, Riverside
Expected Graduation June 2022
Major GPA: 3.0

**Relevant Coursework**

Data Structures and Algorithms
Design of Operating Systems
Software Construction (Design)
Formal Automata
Discrete Structures

## SKILLS

**Languages**

| | |
|---|---|
| English | Vietnamese |

**Programming**

| | |
|---|---|
| C++ | C |
| Javascript | Python |
| HTML5 | CSS3 |

**Other Technicals**

| | |
|---|---|
| MongoDB | Qt |
| Bash | MySQL |
| jQuery | Bootstrap |

**Tools**

| | |
|---|---|
| Vim | Latex |
| Jupyter Lab | VS Code |
| Docker | Eclipse |
| MS Visual Studio | Matlab |
| Atmel Studio | |

## PROJECTS

**Database Development Project**                          Summer 2020

- A backend application that maintains ticker and options historical data written in **Python3**, maintained using **MongoDB**, and automated with **crontab**
- 200,000+ daily multithreaded requests to yahoo finance and the database for 500+ stocks with < 1 minute interval per update cycle
- Visualized database aggregations using **MatPlotLib** and **Jupyter Lab**
- Optimized **CRUD** operations by indexing and querying the database efficiently

**Hardware Design Project**                                    Winter 2020

- Used 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**

**Software Design Project**                                     Spring 2018

- Designed a **UI/UX** login and canvas window using **Qt** framework
- Led a 4-man team as the scrum master utilizing **Scrum Agile** methodology
- Allowed users to create, modify, or remove shapes on the canvas
- Created a login system that maintains persistent storage for user credentials

## WORK EXPERIENCE

**Vex Robotics Event Partner**                          Feb 2018 - Present
Vex Robotics

- Supervised and hosted an annual robotics competition at Lakeside Highschool
- Configured **raspberry pis** to allow contestants to remotely control robots
- Directed a small team to manage the tournament software in a timely manner
- Arranged and formatted the setup for servers, fields, and audience/pit displays
- Increased scheduling efficiency by 14% by carefully managing technical errors and minimizing matchmaking delays

**Office Assistant**                                      June 2019 - Sept 2019
TicketShine, Inc.

- Fast paced environment with clerical tasks like fulfillments, pricing, and data entry
- Coordinated with a large team for price analysis and placing large market orders
- Created various automation tools for the company to decrease human error

**Math Tutor**                                            Jan 2019 - May 2019
Irvine Valley Community College

- 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
- Taught in math workshops for advanced topics

## INVOLVEMENT

**Buddhist Scouts**                                       June 2015 - Aug 2019

- Taught fundamental Buddhist Philosophy to a class of students ages 7 - 12
- Supervised a lion dance team of 15 students to perform at weddings and festivals
- Coordinated and organized summer and winter camps with 100+ attendees

**Vietnamese Student Association**                       Sept 2019 - Present

- Assisted in setting up Vietnamese Culture Night an annual culture show
- Mentored younger members in dance and academics
- Helped organize several team bonding events and activities