

# RICHARD DUONG

📍 Lake Elsinore, CA 📞 (714) 360 4302 ✉ richtvduong@gmail.com 🌐 richardduong.com 🌐 linkedin.com/in/richardvduong

## 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 **raspberrypi** 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