RICHARD DUONG

richardduong.com · github.com/richard-duong · richtvduong@gmail.com · linkedin.com/in/richardvduong · (714) 360 4302

EDUCATION

Bachelor of Computer Science

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

Relevant Coursework

Data Structures and Algorithms
Operating Systems Design
Software Design
Formal Automata
Computer Networks

SKILLS

Languages

English   Vietnamese

Programming

C++   C
Javascript   Python
HTML5   CSS3

Other Technicals

MongoDB   Latex
Bash   Docker
jQuery   Git Workflow

Tools

Jupyter Lab   Vim
MS Visual Studio VS Code
Atmel Studio   Eclipse

PROJECTS

Database Development Project   Jun 2020 - Present

- Scheduled a backend service that maintains and keeps historical stocks data written in **Python3**, maintained on **MongoDB**, and automated with **Cron**
- Parallelized 200,000+ daily requests to yahoo finance and the updates to the database for 500+ stocks with < 1 minute interval per update cycle
- Visualized database aggregations using **MatPlotLib** and **Jupyter Lab**
- Implemented **CRUD** operations with efficient indexing and querying

Hardware Design Project   Winter 2020

- Interfaced infrared sensor to record oscillations from blood contractions
- Filtered anomaly values and minimized environmental noise 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 an annual robotics competition at Lakeside High with 300+ attendees
- Directed a team of 5 to manage tournament software in a timely manner by resolving technical errors resulting in a 14% increase in scheduling efficiency
- Managed servers, fields, audience/pit displays, controllers, and lighting
- Administered scheduling, matchmaking, timers, awards, and scoring
- Configured **raspberry pis** to allow contestants to remotely control robots

Office Assistant   June 2019 - Sept 2019
TicketShine, Inc.

- Developed various automation tools such as a daily email system
- Fulfilled $10,000+ weekly and priced competitively against other vendors
- Coordinated with a 15 man team for price analysis during volatile hours
- Handled clerical tasks such as data entry and placing buy orders

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

INVOLVEMENT

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

Buddhist Scouts   June 2015 - Aug 2019

- Taught fundamental Buddhist Philosophy to a class of 10 students ages 7 - 12
- Supervised a lion dance team of 15 dancers to perform at ceremonies and festivals
- Coordinated activities for summer and winter camps with 100+ attendees