Christopher Wu Quach

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Education

University of California, Irvine—*School of Donald Bren Information and Computer Science*   June 2022
- Bachelor of Science in Computer Science
- Relevant course work: Discrete Math, Linear Algebra

Projects/Professional Experience

Raytheon Intelligence and Space—*Software Engineer Intern*   June 2020 - Current   *El Segundo, CA*
- **Modeling Sim and Verification Tool Software Database:**
  - Created a database to store all the products for MSAVT since the team previously used an Excel spreadsheet
  - Analyzed states of 150+ MSAVT products and FOSS/COTS software across labs and networks
- **Synthetic Aperture Radar Simulation Tool:**
  - Supported this program by analyzing and testing MATLAB code
  - Cross-department collaboration with 3 different System Engineers
- **Acquiring Secret Security Clearance**

Raytheon Space and Airborne Systems—*IT Strategy and Innovations Intern*   June - Sept 2019   *El Segundo, CA*
- **Machine Learning:**
  - Wrote a Python script by skewing/transforming 10 images and accumulated 100 images total to train the model on a larger dataset
  - Experimented by installing a model that contains a pre-trained dataset with common objects that can identify and track them live
  - Purpose was to eliminate human error at receiving docks across Raytheon when reviewing incoming packages
- **Goleta Raytheon Vision System Site:**
  - Wrote a Python script to help organize storage shelves at the Goleta RVS site because there was a physical capacity issue
  - Turned script into iOS app in collaboration with teammate to improve usability for any employee
- **AR Apps:**
  - Introduced 10+ AR Apps to engineers to demonstrate how they can use VR and AR to display their products to customers
  - Purpose was to show that Raytheon possess the technology that more engineers should take advantage of
- **Shuttle Bus App:**
  - Refined and updated the Shuttle Bus App for Raytheon employees to plan rides from different parts of the campus
  - Simplified the UI and made adjustments to back-end for efficiency

Washing Machine—*Personal Project*   July 2017   *Long Beach, CA*
- Home washing machine broke due to swollen capacitors
- Fixed machine by deciphering error code and by soldering 2 new capacitors onto the motherboard

Project ECHO—*Business Proposal*   Nov 2015   *Los Angeles, CA*
- Guided and worked with a group of five people to create a business plan and presented it at UCLA in front of judges

Technical Skills

- **Programming Languages**: Python, C++, Java, SQL, R, HTML/JavaScript/CSS
- **Tools**: MacOS, Windows, Linux, Microsoft Office, MATLAB, React, Web2py, Xcode

Soft Skills

- **Languages**: Fluent in English, Cantonese; Proficient in Mandarin

Awards/Volunteer Work

- **Certifications**
  - Red Cross Lifeguard Certified
  - Red Cross CPR/AED/First Aid Certified
  - Administering Emergency Oxygen
  - Asthma Inhaler Training
  - Blood Pathogens Training
  - Epinephrine Auto-Injector Training
  - First Aid for Public Safety Personnel (Title 22)

- **Volunteer Work**
  - Long Beach Veterans Affairs Hospital (40+ hours): Helped transport veterans to and from their appointments
  - City of Long Beach Health Department (20+ hours): Participated in creating a survey that showed how many stores in Long Beach sold tobacco to under aged people