Eric Vu

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EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE　　　　　　　　　　　　　September 2014 – June 2018
Bachelor of Science in Computer Science　　　　　　　　　　　　　　　　　　**Major GPA: 3.38**

- **Relevant Coursework**: Data Structures, Networks, Algorithms, Operating Systems, Databases, Embedded Systems, Design Patterns, Discrete Math, Machine Learning

- **Languages:** Python, C++, Javascript, Java, C
- **Technologies:** Linux, REST, React, MongdoDB, Express, SQL, Node, Embedded Systems, JSON, Serial

EXPERIENCE

LANTRONIX　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Irvine, CA
Software Engineer Intern　　　　　　　　　　　　　　　　　　　　January 2018 – Current

- Built multi-threaded showcase application using **Python**, **C**, and **PyQt** that serves as the primary factor in demonstrating new IoT software and securing client sales; pushed to production and used by Application Engineers
- Showcase uses Serial communication between Arduino microcontroller and Raspberry Pi to send data to cloud via RESTful/MQTT APIs
- Worked directly with VP of Engineering to build water sensor demo using **C-programmed** microcontrollers and Lantronix XPort devices, which was used at 2018 Sensor Expo and saw a **4% increase in XPort sales**

UCI APPLIED INNOVATION　　　　　　　　　　　　　　　　　　　　　　Irvine, CA
IT and Software Development Intern　　　　　　　　　　　　　　August 2016 – January 2018

- Researched content automation solution using Raspberry Pi with **Python** and **Javascript** that replaced over 40 PCs and saved **over $40,000 in OpEx.**
- Used **Python** and Slack API to create internal bot that automates shutting down and rebooting of all T.V. screens and PCs in building, which saved an estimated 58% of time on tasks
- Incorporated **Trello** and **Google Voice APIs** to create Applied Innovation's first-ever voice-automated ticketing system on Trello

UC IRVINE CIRCLE K　　　　　　　　　　　　　　　　　　　　　　　Irvine, CA
Secretary　　　　　　　　　　　　　　　　　　　　　　　March 2016 – March 2017

- Revolutionized position by creating **PHP** and **SQL** script to automate tasks and saved 92% of time on reports
- Worked with team to organize service and leadership events that led the club to over 8000 hours of service

SELECTED PROJECTS

THE FRIDGE APP *(React-Native, Express, MongoDB)*　　　　　　　　　　　August 2018

- Shared fridge mobile app that allows housemates to keep track of the contents in their fridge. Users can view who each item belongs to, get notified when food is expiring, and request items belonging to other housemates.
- Front-end uses **React-Native** and **AsyncStorage** to store user sessions for persistent login
- Back-end uses **Express** middleware to handle requests and perform CRUD operations on **MongoDB** database

NIBBLE *(React, Express, CSS)*　　　　　　　　　　　　　　　　　　　　July 2018

- **React** app that randomly picks a place to eat based on user category preferences. Created for and used by peers.
- Back-end uses **Express** and **Yelp API** to retrieve list of restaurants. Uses **Google API** to embed map and directions

DAYQUEST *(Java)*　　　　　　　　　　　　　　　　　　　　　　　　　April 2017

- **Android** application written in **Java** that helps autistic children focus, plan ahead, and complete everyday tasks
- Supports real-time notification and login system; Created for 2017 Autism App Jam
- Worked with various behavioral interventionists to create easy-to-use user experience and interface