

EDUCATION

Los Angeles, Ca	California State University, Los Angeles	Fall 2015 – May 2018
<ul style="list-style-type: none">• B.S in Computer Science, May 2018• <i>Electives</i>: Artificial Intelligence, Concurrent and Distributed Programming, Cryptography, Data Science, and Robotics		

EMPLOYMENT

Software Engineer I	Raytheon Technologies El Segundo, Ca	February 2019 – Present
<ul style="list-style-type: none">• Develop software for radar sensors.• Design and develop a metrics visualization tool for data analysis.• DoD Secret clearance level.		

Instructional Student Assistant for Computer Science	California State University, Los Angeles	Fall 2016 – Spring 2017
<ul style="list-style-type: none">• Provide supplementary instruction and assistance to students for various computer science courses.• Evaluate student skill set and provide help to clarify concepts.		

Configuration Controller	Pacific Contours – Anaheim, Ca	2008 – 2013
<ul style="list-style-type: none">• Build EBOM/MBOM and parts list configurations in Epicor ERP System.• Maintain company website; upload photographs, documents, and profile updates.		

LANGUAGES AND TECHNOLOGIES

- Java, Python, C, JavaScript, MySQL, HTML/CSS; MEAN Stack, Flask; OpenCV, scikit-learn, Numpy, and Pandas
- MacOS; Ubuntu, RedHat7, Centos7; Windows 7/10; Visual Studio, VS Code, IntelliJ, Pycharm; emacs
- Docker, Jenkins, VMWare, git, subversion
- Fluent in English and Spanish

TECHNICAL EXPERIENCE

Projects

- **Robosub 2018** – Computer Vision Lead – *Robonation: Autonomous Underwater Vehicle Robotics Competition*.
 - Design and develop the object-detection software architecture.
 - Use machine learning and computer vision to detect underwater objects using Python and OpenCV.
 - Develop preprocessing techniques and tools to achieve higher detection accuracy and minimize computation.
- **Lupita's Café** – Point of Sale (POS) software tracks finances and inventory for selling beverages in a night club.
 - Design and develop a touch screen graphical user interface (GUI) using JavaFX.
 - Modeled from the ground up using object-oriented principles.
- **Image-Cropper-GUI** – Tool for cropping and labeling training images for machine learning applications.
 - Implemented in Python using OpenCV's high level GUI API.
 - Store cropped images to disk along with a log file with coordinates and label classification.

ADDITIONAL EXPERIENCE AND AWARDS

- **Association for Computing Machinery** – *California State University, Los Angeles* Spring 2016 – Spring 2017
 - Executive Council Member (Fall 2016 – Spring 2017)
 - Teach and assist in coding workshops, planning events, and meetings.
 - ACM Member of the Quarter Award - Spring 2016
 - ACM Picade - Spring 2016
 - Outfit a team-built arcade cabinet with a Raspberry Pi 3, two arcade sticks, monitor, and speakers.
 - RetroPi was the platform used for student to develop, create, and upload games.
 - ACM Magic Mirror
 - Install a personal assistant mirror with a Raspberry Pi 3 and supported open source software.
 - Demonstrate to students and members how software and hardware collaborate.