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Los Angeles, Ca 90044

**Danny C. Padilla**

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**EDUCATION**

**Los Angeles, Ca**

**California State University, Los Angeles**

Fall 2015 – May 2018

* B.S in Computer Science, May 2018
* Coursework: Artificial Intelligence, Concurrent and Distributed Programming, Cryptography, Data Science, and Robotics

**EMPLOYMENT**

**Instructional Student Assistant for Computer Science**

**California State University, Los Angeles**

Fall 2016 – Spring 2017

* 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

* Build EBOM/MBOM and parts list configurations in Epicor ERP System
* Maintain company website; upload photographs, documents, and profile updates

**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
* **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 .txt file with coordinates and label of region of interest
* **Graffiti Locator** – Santa Barbara Hackathon 2016 (Work in progress)
  + Create a web application that helps geotag graffiti via GPS location using Google Maps API
  + Use scikit-learn to train the app to distinguish between graffiti and street art using Python

**ADDITIONAL EXPERIENCE AND AWARDS**

* **Association for Computing Machinery** – California State University, Los Angeles Spring 2016 – Spring 2017
  + Executive Council Member (Fall 2016 – Spring 2017)
    - Assist with teaching 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
    - A hands-on demonstration for students and members of how software and hardware are collaborated
* **Hackathons** - 2016/2017 Season
  + Citrus Hack, Poly Hack, Hacktech, Beach Hacks, SB Hacks, LA Hacks, Car Connected 2016, Lady Problems
  + Enjoyed the environment and enthusiasm of creating and collaborating among various students and professionals from different backgrounds, majors, and industries.
  + Felt pressures of deadlines, finalizing projects, distributing tasks, communication, motivation, disappointment, and sleep deprivation

**LANGUAGES AND TECHNOLOGIES**

* Java, Python, JavaScript, MySQL, HTML/CSS; Bootstrap, and MEAN Stack; OpenCV, scikit-learn, Numpy, and Pandas
* MacOS, homebrew; Ubuntu; Windows 7/10; IntelliJ, Pycharm; emacs
* Fluent in English and Spanish