

# Andrea Lopez

📍 Los Angeles, CA 📁 [Portfolio](#) ☎ +1-909-315-2495

## WORK EXPERIENCE

- Intel Corporation – Graduate Software Engineer Intern** July 2017 - Sept 2017
- Investigated and selected best method for displaying manufacturing flow charts on internal websites to be adopted by 60 users
  - Developed a proof of concept software tool that checked if servers, databases, APIs, inter-process communication framework tools, websites, and windows applications were fully functional after a monthly system patch, and reboot
  - Researched methods for inserting data tables with dynamic attributes into databases
  - **Technologies Used:** Wiki Enterprise, HTML, Visual Studio, C#, .NET Framework, SQL Server Integration Services, SQL Server Management Services
- Insomniac Inc. – Guest Services Assistant Manager, Ticketing Assistant Manager** June 2014 - Dec 2017
- Supervised teams, sizes ranging from 3-10, in ticket sales and ticket resolution
  - Managed Lost & Found team of size 15 through 24-hour operations
- Cal Poly Pomona: Computer Science Department – Student Researcher** June 2015 - Aug 2015
- Created a smart pet door prototype that was a cost-effective substitution to existing pet doors, with mobile and intelligent capabilities
- Technologies Used:** Raspberry Pi 2, Arduino, Bluetooth beacon, linear servo motor
- Citrus College: Mathematics & Physics Department – SIGMA Mentor/Tutor** Aug 2014 - June 2015
- Strengthened student commitment to completing coursework by supporting them with STEM tutoring, as well as encouraging their participation in STEM-related activities
  - Counseled students on their personal experiences and shared knowledge that aided their personal development

## PROJECTS

- BdayPal App - iOS Engineer** May 2019 - Present
- Designed, developed, tested, marketed, and launched a birthday app on the Apple AppStore
  - [App Store Listing](#)
  - [Web Page](#)
- Technologies Used:** XCode, Swift, Sketch, AppStore Connect
- UC Davis Digit Image Recognition Team - Student Verilog Engineer** Jan 2017 - June 2017
- Designed a custom FPGA accelerator component that performed digit image recognition on sets of 500 images
  - Improved the speed of pre-trained neural network by 40% through data compression, storage component selection, preloading data, and neural network optimization while maintaining 90% accuracy
- Technologies Used:** DE1-SOC Altera FPGA, Quartus II, MATLAB, C, Verilog
- UC Davis EEEmerge Team – Student Design Engineer** Sept 2015 - June 2016
- Constructed, wired, and programmed a 2 ft. x 2 ft. infinity mirror, which was activated by hand proximity sensors to provide an interactive exhibit
- Technologies Used:** TI micro-controller, Code Composer Studio, C/C++
- Citrus College Cosmic Research Team – Student Researcher** June 2014 - June 2015
- Improved balloon tracking accuracy by more than 50% with a high-powered GPS unit
  - Conducted 4 high altitude balloon test launches that carried scientific payloads which collected temperature, altitude, & sound data to examine the earth's atmosphere conditions
- Technologies Used:** Arduino, Altimeter, Geiger counter, Recorder

## VOLUNTEER

- [Hack for LA](#) Core Team – Organization Strategy and Events May 2018 - Present
- [Playa Tech](#) Board – Events June 2018 - Present

## EDUCATION

**Bachelor of Science in Computer Engineering**, Emphasis in Digital Systems December 2017  
University of California, Davis  
GPA: 3.48