

# Andrea Lopez

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## WORK EXPERIENCE

### Data Analyst, Technical Consultant, Automation Engineer – Green City Tax, Snaggletooth Studios Los Angeles, CA 1/24 – 1/25

- **Green City Tax** | Aggregated client data over multiple years, cleaned data, created data visuals, and authored report of insights on target market customers
- Created foundational client marketing materials through data analysis of internal data and market research using internal data tools/platforms
- **Snaggletooth Studios** | Improved employee intake process by 90% and increased client engagement via email through software automations and optimizations for employee and client marketing flows using Google Cloud, Google App Scripts, Google Sheets, and JavaScript

### Software Engineer, Lead – Warner Brothers Discovery Los Angeles, CA 4/22 – 10/23

- **Max** | Streaming Entertainment Web Application: UI and API integration in TypeScript, React
- Managed a team of 2 to deliver the user settings feature by defining requirements, creating tickets, and leading daily scrums, resulting in an on-time launch
- Led planning & delivery of a migration privacy feature by coordinating across engineering, product, design, & privacy teams, meeting compliance goals on schedule
- Owned accessibility compliance by escalating gaps, aligning stakeholders, and running training sessions, ensuring all features met standards
- Spearheaded universal UI components adopted by multiple teams, enabling faster, more consistent development
- **HBO Max** | Streaming Entertainment Web and Mobile (iOS/android) Applications: UI and API integration in TypeScript, React Native
- Delivered 63+ feature and bug fix pull requests by designing, coding, and testing solutions for UI/UX, accessibility, and performance, resulting in a stable, user-friendly experience.
- Reviewed 33+ peer pull requests and created clear documentation for settings features and conducted cross-platform testing ensuring consistent performance across devices

### Software Developer – ISBX Los Angeles, CA 10/19 – 11/21

- **Red Bull Co-Pilot** | Event Management Mobile Application: Backend integration in Swift, Objective C, RxSwift, GraphQL
- Led a full feature revamp from analysis through testing, finishing on schedule
- **Puffco Peak Pro** | Bluetooth Vaporizer Mobile Application: UI and backend in React Native, Typescript, NestJS, typeORM, SQL
- Created detailed testing documentation to track full test suite results for each feature prior to new OTA firmware releases
- Authored tutorial documents and produced instructional videos guiding users on how to pair the mobile app with the Bluetooth-enabled device
- **Rapid Credit** | Credit Management Mobile Application: UI redesign and new backend integration in Expo, React Native, Typescript, SQL
- **HED Unity** | Bluetooth Headphone Application: UI and API integration with well-known music streaming providers in RxSwift

### Software Engineer Intern – Intel Corporation Santa Clara, CA 7/17 - 9/17

- Built a C#/.NET tool to verify operational status of servers, APIs, databases, and web applications post-system patch and reboot
- Created technical documentation for the tool's architecture, usage, and maintenance, published to Intel's internal Confluence system for long-term use
- Designed and documented optimized workflows for manufacturing flowchart visualization using Wiki Enterprise, HTML, and CSS—adopted by 60+ internal users
- Researched and documented dynamic data table insertion methods for internal databases

### Guest Services & Ticketing Assistant Manager – Insomniac Inc. Los Angeles, CA 6/14 - 12/17

- Supervised teams, sizes ranging from 3-10, in ticket sales and resolution, as well as managed Lost & Found team of size 15 through 24-hour operations

### Software Engineer Researcher – Cal Poly Pomona Computer Science Department Pomona, CA 6/15 – 8/15

- Created a smart pet door prototype that was a cost-effective substitution to existing pet doors, with mobile and intelligent capabilities using Raspberry Pi 2, Arduino, Bluetooth beacon, and linear servo motor
- Authored a detailed technical poster explaining system architecture, component functions, use cases, and potential future enhancements
- Presented project and poster at a regional technical student conference, demonstrating the ability to clearly communicate technical solutions to diverse audiences

### STEM Mentor/Tutor – Citrus College Mathematics & Physics Department Glendora, CA 8/14 – 6/15

- Strengthened student commitment to completing coursework by supporting them with STEM tutoring, as well as encouraging their participation in STEM activities

## PROJECTS

### iOS Software Engineer, Project Manager – BdayPal App Chino Hills, CA 5/19 – 10/25

- Designed, developed, tested, marketed, and launched a birthday app on AppStore using XCode, Swift, Sketch, AppStore Connect, Apple Frameworks, Cocoa Pods
- Authored and published a full documentation portfolio outlining the app's development process—including the problem statement, design research, inspirational mood board, high-fidelity mockups, and final product.

### Student Verilog Engineer – UC Davis Digit Image Recognition Team Davis, CA 1/17 – 6/17

- Designed custom FPGA accelerator component that performed digit image recognition on sets of 500 images using DE1-SOC FPGA, Quartus II, MATLAB, C, & Verilog
- 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

### Student Engineering Researcher – Citrus College Cosmic Research Team Glendora, CA 6/14 – 6/15

- 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 using Arduino, Altimeter, Geiger counter, and Recorder

## EDUCATION

University of California, Davis, B.S. in Computer Engineering - Emphasis in Digital Systems. GPA: 3.48, 12/17

Google Data Analytics Certificate, Coursera 2025 | Google Foundations in Project Management, Coursera 2025 | UX for Web Design, Lynda.com 2018