

Byron Urrutia

Glendale, CA 91202

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OBJECTIVE

Current computer science undergraduate determined to pursue learning opportunities as a software developer which I can further advance my skills and educational knowledge.

EDUCATION

Bachelors of Science in Computer Science; Minor in Mathematics —
California State University, Northridge
GPA: 3.20

August 2020 — Present

RELEVANT COURSEWORK

- COMP 282 Advanced Data Structures
- COMP 491 Senior Design Project
- MATH 482 Combinatorial Algorithms
- COMP 440 Database Design
- COMP 485 Human Computer Interaction
- COMP 584 Advanced Web Engineering

PROJECTS

COMP 490, Senior Design Project: BitBeat —

August 2021 — June 2022

- Developed an audio NFT marketplace website where users can mint and trade audio NFTs under the Ethereum Blockchain.
- Delegated task as SCRUM master in Jira to lead the team to finish goals within limited time or sprint.
- Deployed Smart Contracts programmed under Solidity under the test Ethereum Blockchain.
- Utilized the framework, Moralis, to store user data, NFT metadata, and transactions.
- Programmed a test website using Vanilla HTML and CSS to test the basic functionalities of the website.
- Streamlined a website conversion to React to improve scalability and design.

COMP 380, Software Engineering Principles —

January 2021 — May 2021

- Planned the proposal of a software management system included with GUI prototypes, ERD, Sequence, Class Diagrams, and RCRM.
- Documented the proposal of a software project management website.
- Budgeted approximate financial values of the website through research.

Quality Assurance, Gamestar —

August 2021 — June 2022

- Tested the Family Feud website game for bugs and feedback for user experience to improve the usability of the software.
- Determined website usability in many search engine platforms such as Google Chrome, Safari, and Firefox.
- Reported and communicated my experiences and thoughts about the website in areas that can be improved such as visuals, performance, and ease of use.

NASA Space Grant Consortium, Sensor Monitored Terrarium —

May 2021 — July 2021

- Engineered a seal terrarium that is monitored with raspberry pi sensors and designed to be sent to space and studied.
- Programmed python code through the Thonny IDE to enable the sensors to record environment data.
- Summarized and analyzed data through graphs and visuals using ThinkSpeak and MATLAB.
- Presented the project to NASA faculty and other program participants.

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NASA Space Grant Consortium, Self Disinfected Handle —

May 2020 — July 2020

- Engineered a door handle which utilizes UV disinfection devised to prevent the spread of COVID-19.
- Programmed C/C++ code using Arduino IDE to operated the disinfecting action of the handle.
- Fabricated parts for the handle using OnShape to design the shapes and 3D printing to construct them. • Presented the project to NASA faculty and other program participants.

NASA Space Grant Consortium, Environment Sensor and Data Aggregate —

May 2019 — July 2019

- Engineered a device that contained radiation, temperature, and humidity sensors to display data on a specific coordinate using cloud technology.
- Presented the project to NASA faculty and other program participants.

VOLUNTEER EXPERIENCE

Club President, Circle K International —

March 2018 — February 2019

Cali-Nev-Ha District, Los Angeles City College (LACC)

- Delegated the executive board of the Los Angeles City College Charter of Circle K to participate in volunteering services and create a community for college students.
- Represented the Los Angeles City College Charter of Circle K International in conventions and meetings between other school chapters.
- Maintained relations with club sponsors or other school chapters and communicated with them for collaborations.

Club Vice President, Circle K International — Cali-Nev-Ha District, LACC —

March 2017 — February 2018

- Organized and planned volunteering events for club members to participate in.
- Encouraged participation and turnout in volunteering events to build a sense of teamwork and community.
- Administered liability forms and paperwork for service hours to document the club members' total hours.