

# Andrew Lopez

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**California State University, Fullerton** (ABET Accreditation)

May 2020

**Bachelor of Science:** Computer Science, **GPA:** 3.12, **Dean's List:** Spring 2019, Spring 2020

**Relevant coursework:** Data Structures, Software Engineering, Software Design, Artificial Intelligence, Web Security, Cryptography, High Performance Computing, Computer Networking, Computer Architecture, Compilers, Operating System Concepts, Databases,

## Technical Skills:

- Languages: C++, Python, C, HTML/CSS, JavaScript, ReactJS, SQL, CUDA, Fortran 90
- Tools: Git, VS Code, Angular, WordPress, Linux, MySQL, MS Office (Word, Excel, PowerPoint)

## Work Experience

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### Web Developer/Designer Intern

October 2020-January 2021

Atlas Buying Group

- Revamped multiple existing web pages to locate and fix bugs and implement enhancements to improve speed and functionality.
- Worked on search engine optimization by collecting site analytics to improve rankings.

### Software Developer Intern

June 2020-August 2020

CodeDay

- Developed a web application to track financial portfolio growth, using free and open APIs to fetch real-time market data to store in an online database.
- Resolved stretch goals such as producing a graph updated in real-time and introducing a user-authentication mechanism utilizing Angular, SQL, and Flask.

### Supplemental Instruction Leader

August 2018-May 2020

California State University Fullerton, *Fullerton, CA*

- Conducted weekly learning sessions offering extended C++ help for computer science students
- Helped improve grades, developed better understandings of courses, and taught data structures using effective ways of learning for students
- Mentored students by simplifying course material to effectively enhance their learning experience

## Projects

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### Malicious URL Predictor | Python

February 2020-April 2020

- Created a machine learning scanner that detects malicious URLs to prevent cyber attacks
- Calculated predictions using several formulas and generated a report that displayed which formula has the highest accuracy and precision

### Blockchain Protocol | Python

April 2020-May 2020

- Implemented a public blockchain similar to the Bitcoin protocol. Features include transaction broadcasting, digital signatures, mining blocks, verifying blocks, checking your balance, and providing a block reward

### ThetaBots | C++

November 2019-February 2020

- Constructed a competitive battlebot using Arduino hardware/software that can be controlled remotely via a Bluetooth mobile application

### My GPA Calculator | ReactJS | CSS

February 2019-May 2019

- Developed a mobile application using React Native that allows students to enter in grades and assignments to calculate an estimated final GPA

## Leadership

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### Founder/Corresponding Secretary

December 2018-December 2019

Theta Tau

- Founded the first professional co-ed engineering fraternity at California State University, Fullerton
- Launched an ongoing online database system of record keeping within the fraternity
- Conceptualized articles to the national fraternity using Adobe InDesign
- Overlooked and managed public relations with multiple social media platforms