

## Education:

Cornell University, College of Engineering  
Cumulative GPA: 3.42

Bachelors of Computer Science, Expected 2020  
Business Minor, Presidential Research Scholar

## Experience:

**Capital One Software Developer Intern** 2017  
• Summer 2017

**Autonomous Bicycle Team** 2017  
• Currently creating the world's first self-steering, self-balancing bicycle.  
• Software member on the Navigation team coordinating the start-up of all the bike systems

**Cornell University Teaching Assistant** 2017  
• Selected to be a TA for CS 2112 (Honors Object-Oriented Design & Data Structures)  
• Led weekly discussions, designed student projects, and held weekly office hours

**Cornell University Research Assistant** 2016-17  
• Used R for exploratory analysis on available student data  
• Identified key differences between taking co-requisite courses as pre-requisites  
• Visualized and presented findings to a faculty panel for future improvements

**UCF Office of Research & Commercialization Quality Assurance Intern** 2016  
• Worked on a team using the Agile methodology to connect entrepreneurs with investors  
• Certified application stability in a production environment through unit testing

## Projects:

**Simulating Evolving Artificial Life** 2016  
• Implemented a compiler for a given context-free grammar using Java  
• Created a GUI to control and visualize a multi-threaded world using JavaFX  
• Built a Java-backed thread-safe web server to handle distributed worlds

**Text Editor** 2016  
• Implemented a text editor that had word completion, spell check, and text search functionality  
• Created a trie for text search and autocomplete, built a bloom filter and hashmap for spell check

**Encryption** 2016  
• Implemented the RSA algorithm and several other ciphers, using the Factory Design Pattern  
• Used input/output streams to manage memory usage when encrypting and decrypting large files

**Recommendations** 2017  
• Created a website that gives users restaurant recommendations based off a Yelp database  
• Created a NodeJS server and hosted the corresponding website on Heroku

**SNAP Helper** 2017  
• Created an android app that would be a supplement to the SNAP food assistance program  
• Implemented payment by NFC chip and a grocery planner

## Skills:

Java • Unit Testing • Git • R • HTML • CSS • JavaScript • C++ • Python • L<sup>A</sup>T<sub>E</sub>X

## Applicable Courses:

Introduction to Analysis of Algorithms • Object-Oriented Design & Data Structures Honors • Digital Logic & Computer Organization • Networks • Discrete Structures • Data Science • Linear Algebra • Multivariable Calculus • Probability Models and Inference