

# Sean Kunz

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## Education

### Binghamton University

Master of Science in Computer Science

Coursework: Cloud Computing, Distributed Systems, Networks

**Binghamton, NY**

*Expected May 2022*

### Binghamton University

Bachelor of Science in Computer Science, Minor in Geography

**Cumulative GPA: 3.68/4.00 | Major GPA: 3.75/4.00**

Dean's List: Spring 2017 – Present

**Binghamton, NY**

*December 2020*

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## Skills

**Languages:** Proficient in Python, C, C++, Java; familiar with Go, JavaScript, Ada, PL/SQL

**Software and OS:** Linux, Git, Docker, MongoDB, Hadoop, GCP, Jenkins, Apache Thrift

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## Work Experience

### Lockheed Martin

*Graduate Software Engineering Intern*

**Owego, NY**

*June 2020 – August 2020*

- Implemented a revamped Aircraft Detection System for the MH-60 Helicopter using C
- Resolved more than a dozen mission critical bugs, improving overall flight safety and ease of use
- Assisted in the development of Track Simulation scripts that provided developers 7 testing scenarios

### Lockheed Martin

*Software Engineering Intern*

**Owego, NY**

*June 2019, 2018 – August 2019, 2018*

- Created an automated testing framework using Jenkins/Python that will be used for all future testing
- Achieved 100% completion on over 1,000 Ada and C code coverage and unit tests
- Documented testing procedures to allow new developers to easily pick up the testing process

### Binghamton University

*Course Assistant*

**Binghamton, NY**

*August 2018 – December 2018*

- Assisted in teaching students technical, research-based writing skills and professional ethics
- Graded numerous research papers on topics such as Artificial Intelligence and Machine Learning
- Developed automated group generating processes using Python to improve the course's efficiency

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## Projects

### Food Desert Analysis

*April 2020 – Present*

- Created an application using Python/JavaScript to analyze the location of healthy food options in cities
- Performed computations using Hadoop and the Google Places/Geocoding APIs
- Containerized and hosted the solution using Docker and the Google Cloud Compute Engine
- Managed and queried data using MongoDB
- Visualized the spatial relationship between income and food options using Leaflet.js

### Swear Jar

*February 2020*

- Created a Python application that detects swearing using the Google Speech-to-Text API
- Integrated PayPal so that users can donate the proceeds to charity

### “Kangaroo Run” Endless Runner

*November – December 2016*

- Created endless running game using Python/Pygame, similar to the Google Chrome Dinosaur Game
- Competed with 70 classmates and chosen as the best project in the class by the professor
- Chosen as the example project to show incoming Introduction to Programming students