Sean Kunz

Apalachin, NY ● (607) 341-2995 ● skunz1@binghamton.edu ● github.com/skunz42

Education

Binghamton University **Binghamton, NY**
Master of Science in Computer Science *Expected May 2022*
Coursework: Cloud Computing, Distributed Systems, Networks

Binghamton University **Binghamton, NY**
Bachelor of Science in Computer Science, Minor in Geography *December 2020*
Cumulative GPA: 3.68/4.00 | Major GPA: 3.75/4.00
Dean's List: Spring 2017 – Present

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

Professional Experience

Lockheed Martin **Owego, NY**
Software Engineering Intern - Team: MH-60 R&D *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
- Assisted in the development of scripts that provided developers 7 testing scenarios

Software Engineering Intern - Team: MH-60 Mission Computer *June 2019 – August 2019*
- Created an automated testing framework using Jenkins/Python that will be used for all future testing
- Achieved 100% completion on over 550 Ada code coverage and unit tests
- Led a team of Software Engineering Interns working on a Miniature Rover

Software Engineering Intern - Team: MH-60 Graphics Improvement *June 2018 – August 2018*
- Rebuilt the team's testing environment, reducing startup time by 90%
- Completed over 500 code coverage and unit tests using C
- Documented testing procedures to allow new developers to easily pick up the testing process

Binghamton University **Binghamton, NY**
Course Assistant *August 2018 – December 2018*
- Taught students technical, research-based writing skills and professional ethics
- Graded numerous research papers on topics such as Artificial Intelligence and Machine Learning

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 an 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