

ANTHONY ROMAN

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EDUCATION

The University of Tennessee, Knoxville, Tickle College of Engineering
Masters of Science in Computer Science

Knoxville, Tennessee
August 2023 – December 2024

The University of Tennessee, Knoxville, Tickle College of Engineering
Bachelor of Science in Computer Science
Minor: *Cybersecurity*
Cumulative GPA: 3.48/4.00

Knoxville, Tennessee
August 2019 – May 2023

PROFESSIONAL EXPERIENCE

University of Tennessee Knoxville
Graduate Teaching Assistant

Knoxville, Tennessee
August 2023 – Present

- Assisted students with their programming assignments
- Led labs to better help describe each programming assignment
- Communicated with other TA's as well as the professor teaching effectively

Northrop Grumman
Software Engineer Intern

Roy, Utah
June 2023 – August 2023

- Utilizes Docker to create, use, and build images and containers
- Builds and implements bash scripts to comply with a CI/CD pipeline
- Makes use of the Atlassian Tool Suite to keep track of and contribute to the project
- Communicates effectively with team to fully understand requirements of Jira issues

MOA Lab
Undergraduate Research Assistant

Knoxville, Tennessee
April 2022 – December 2022

- Implemented the Python and YouTube API to collect data from YouTube
- Managed the project in Gitlab

EXTRACURRICULARS

University of Tennessee, Knoxville Rocket Club
Member of the Payload Team

Knoxville, TN
August 2022 – Present

- Used C++ to develop an automated arming system for a drone using Betaflight
- Communicated with the other parts of the payload team to comply with the physical requirements of the drone

RELEVANT PROJECTS

Probability Distribution of Height in Sports

Knoxville, Tennessee

- Analyzed user's input height to the heights of several popular professional sports leagues
- Automated linkage between dataset input and output into Google Sheets
- Imported data using google credentials, converted, and separated into pandas data frame
- Created downloadable histogram and density plot using matplotlib

City Simulation

Knoxville, Tennessee

- Articulated shortest distance between two cities and travel time using C++
- Applied graph data structure to connect the cities together
- Coded Dijkstra's algorithm for optimization calculations

Weather App

Knoxville, Tennessee

- Implemented Python and weather API to receive weather updates from various locations
- Utilized GeoPy to obtain latitude and longitude for a given city
- Applied PyQt6 for the purpose of building a desktop application

SKILLS

Computer: Microsoft Office, G Suite, Atlassian Tool Suite

Programming Languages: C++, C, Java, Python, Bash, x86 Assembly, HTML, CSS, and PostgreSQL

Other Skills: Git, Linux, Agile/Scrum Workflow, Vim, Docker, Django, pandas, NumPy, and matplotlib libraries in Python