

JOY KIPROTICH

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EDUCATION

The University of Texas at San Antonio

San Antonio, TX

Bachelor of Science in Computer Science

Grad date: **May 2023** | **GPA: 3.96**

VISA Internship prep/ CodePath

Remote

Intro to Software Engineering (Python)

Summer 2021

Northern Virginia Community College

Alexandria, VA

Associate of Science in Computer Science

Grad date: **August 2020** | **GPA: 4.0**

WORK EXPERIENCE

The University of Texas at San Antonio

May 2021-present

Undergraduate Research Assistant

- Design, programming, data analysis, and data visualization of robot swarms with the aim of improving their foraging algorithm.
- Worked with a group of 5 each focusing on different algorithms.
- Specifically worked with Central Place Foraging Algorithm to reduce inter-robot collisions and reduce collection time.
- Work done on Ubuntu under ARGoS simulator with code in C and Python.

The University of Texas at San Antonio

February 2021-present

Athletics Tutor

- Working with Athletes to improve performance in different STEM subjects including **cs1714** (Programming II)

Northern Virginia Community College

August 2019- August 2020

Tutor

- Tutored Math courses to prepare incoming students for placement tests

Student Ambassador

- Worked with freshmen to acquaint them with the school as well as the general student body to help them with simple tasks like signing up for classes or seeking help in the right departments.

TECHNICAL SKILLS

Languages: Java, C, Python, HTML/CSS, JSON

Tools: Visual Studio Code, GitHub, Spotify for Developers, Google Developers

PROJECTS

YouTube to Spotify | Python, Spotify API, Google API, Google Cloud Platform, OAuth, JSON

- Developed a program that automates transfer of a YouTube playlist to a newly created Spotify Playlist.
- Ensure proper authentication for access to data as well as proper data reading and parsing to accommodate the different APIs.
- Tried and tested by 2 users so far

Billboard Web Scraper | Python, BeautifulSoup, JSON

- Developed a program that gets data from Billboard and generates desired Chart placements depending on user input
- Optimizes the experience for music lovers who wish to analyze charts by making data from even 10 years ago available quickly.

Personal Website | HTML/CSS

- Simple personal website