

# JOY KIPROTICH

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## EDUCATION

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### ***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

*CodePath tech Alum*

**Summer 2021**

### ***Northern Virginia Community College***

Alexandria, VA

*Associate of Science in Computer Science*

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

## WORK EXPERIENCE

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### ***BlackRock***

Starting June 2022

*Software Engineering Intern*

- Joining the APG Alternatives Systems team

### ***Zendesk***

September 2021-May 2022

*Software Engineering Co-op*

- Was part of the ZNOC team that respond to incidents and build tools to support reliability work at Zendesk
- 1 of 6 backend team members that worked on building an application that improves observability, and connects Zendesk's many tools into one common UI
- Specifically tasked with moving calculations that were initially being done on the frontend via GraphQL to the backend effectively improving runtime and allowing the frontend team to maximize GraphQL utility
- Retrieved massive alerting data from PagerDuty and was able to make it queryable contributing towards observability efforts by having more easily accessible data
- Utilized docker and Kubernetes for build and deployment

### ***The University of Texas at San Antonio***

May 2021-August 2021

*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.

## TECHNICAL SKILLS

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- **Languages:** Java, C, Python, JavaScript, JSON
- **Tools:** Docker, Kubernetes, GitHub, Datadog, PagerDuty

## PROJECTS

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### ***YouTube to Spotify*** | Python, Spotify API, Google API, Google Cloud Platform

- 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.

### ***Billboard Web Scraper*** | Python, BeautifulSoup,

- Developed a program that gets data from Billboard and generates desired Chart placements depending on user input

***Personal Website*** | HTML/CSS

***MAMA-Sample Website*** | HTML/CSS