

# Johnbosco Muiruri

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## EDUCATION

### Bachelor of Science in Computer Science

December 2026

#### Minor in mathematics

University of Houston

**Relevant Coursework:** Data Structure & Algorithms, Operating Systems, Programming Languages & Paradigms, Computer Networks, Data Science II, Algorithms and Data Structures, Digital Image Processing, Software Design

## PROFESSIONAL EXPERIENCE

### Business Analyst Intern

May 2025 – Aug 2025

Amazon | Austin, TX

- **Developed a Python-based** automated dashboard leveraging the Smartsheet API to streamline data collection, reporting, and visualization, reducing manual effort and improving workflow efficiency for the DBX team.
- **Automated** large-scale updates across **200+ Smartsheet sheets**, and **reports** adding missing columns, correcting financial formulas, and ensuring data integrity for accurate financial reporting.
- **Built AI Sizing tool** that analyzed spatial dimensions (L, W, H) to recommend optimal equipment for clearing jams in Amazon fulfillment centers, providing detailed specifications and alternative tool options to improve operational efficiency and decision-making.

### System Test Engineer Intern

Oct 2024 – May 2025

NASA | Houston, TX

- Supported system testing of **90+ mission-critical applications monthly** within the Mission Control Center environment using **FreeFlyer**.
- Collaborated with engineers to execute, and validate system test procedures ensuring reliability of flight operations software.
- Developed and automated test scripts to streamline regression testing, reduced manual effort and improved efficiency in testing.

### Data Science Intern

May 2024 – Aug 2024

CVS Health | New York, NY

- Led the conversion of data processing workflows from **SAS** and **Teradata** to **Python** and **BigQuery** on **GCP**.
- Collaborated with cross-functional teams to ensure seamless integration of new processes into the GCP environment.
- Developed comprehensive documentation outlining the conversion process
- Analyzed data to identify potential performance bottlenecks and implemented solutions, improving overall system performance.

### Fellow

Aug 2023 – present

ColorStack

- ColorStacks mission is to increase the number of Black and Latinx Computer Science graduates that go on to start rewarding technical careers.
- ColorStack is a tech-focused organization dedicated to promoting diversity and inclusion in the industry, participating in initiatives such as organizing workshops and mentorship programs to support underrepresented communities.

## PROJECTS

### Portfolio Website

May 2022

HTML, CSS, JQuery

### Maintenance & Repair Data Analyzation

Mar 2024

PostgresSQL, Supabase, Python, Pandas, Excel

- Created and develop a relational database by integrating multiple provided datasets, from a repair and maintenance company.
- Cleaned the data fixing missing information, null fields, and inconsistent formatting.
- Queried the relational database to look for 4 unique desired information sets and displayed them.
- Created and implemented an algorithm that gave a value of 0 to 100 for each given store location depending on information from the relational database.

### Cruise Booking Website

Feb 2024

JavaScript, React, Node.js, MySQL, Tailwindcss

- Created a front-end user-facing interface where users can create an account and log in to existing accounts.
- Developed a responsive website using React, ensuring a seamless and interactive user experience.
- Utilized MySQL to design and manage the database for the backend, efficiently storing and retrieving information related to cruise availability, pricing, and locations.

## ORGANIZATIONS

### National Society of Black Engineers

Aug 2023

A dedicated member of the National Society of Black Engineers (NSBE), committed to promoting diversity and excellence in engineering and technology, while actively engaging in opportunities for personal growth, leadership, and community impact within the field.

## SKILLS

### Languages

JavaScript, TypeScript, HTML/CSS, Python, C++, Java, R, MATLAB, SQL, Excel, SAS

### Development

#### Tools/Processes

Visual Studio Code, MySQL Workbench, PyCharm, GitHub, GitLab, Postman Api, GCP, CI/CD JupyterLab/Jupyter notebooks

### Frameworks/Libraries

React.js, Redux/Redux Toolkit, Angular, Node.js, Express.js, Bootstrap, Tailwindcss, Git

### DataBases

MySQL, MongoDB, PostgreSQL, Big Query, Supabase, Teradata