

# MERCY MUIRURI

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## EDUCATION

Northwestern University, Evanston, IL.

Expected Graduation: **June 2027**

Bachelor of Science in **Computer Science** | Minor in **Machine Learning** and **Data Science**

### Relevant Courses:

**Data Structures and Algorithms**, **Computer Systems**, **Social Networks Analysis**, **Fundamentals of Computer Programming in C, C++ and Python**, **Differential and Integral Calculus**, **Linear Algebra**, **Statistics**

## TECHNICAL SKILLS

Programming Languages: **Python**, **C**, **C++**, **JavaScript**, **HTML**, **CSS**, **Racket**, **MATLAB**

Frameworks: **React.js**, **Node.js**, **Tailwind**, **Bootstrap**

Tools and Platforms: **Linux/Unix**, **VS Code**, **Git**, **GitHub Desktop**, **Netlify**, **MYSQL Workbench**, **APIs**

## PROFESSIONAL EXPERIENCE

**National Family Caregivers Association** | *Bootstrap, React, Tailwind*

Nairobi, Kenya

**Software Engineering Intern**

June 2024 - August 2024

- Engineered a responsive web app utilizing **React**, **JavaScript**, **Bootstrap** and **Tailwind** to deliver a scalable front-end that showcased key organizational information to users which **increased engagement by 20%**
- Accomplished a successful deployment of a site using **Netlify** as measured by 99% uptime, by leveraging Netlify's continuous deployment features for automated builds
- Achieved a **30% decrease in website load time** as quantified by performance metrics, by optimizing code efficiency and executing best practices in website performance
- Boosted team collaboration, code quality and faster issue resolution, by implementing and adhering to a **structured Git workflow** for version control and continuous integration

**Jomo Kenyatta University of Agriculture and Technology** | *Python, JavaScript*

Nairobi, Kenya

**Student Assistant**

May 2022 - July 2022

- Collaborated with a team of instructors to provide hands-on instruction for students in **Python** programming as deliberated by a **95% completion rate** of assignments by providing support in interactive coding exercises
- Improved student proficiency in **JavaScript** by **40%** as measured by pre- and post-course assessments, by developing a comprehensive curriculum with practical coding challenges
- Partnered with peer mentors to provide detailed technical support in **HTML**, **CSS**, and **JavaScript** resulting in 100% successful project submissions
- Established best version control practices using **Git** for students, leading to an improvement in project organization and collaboration effectiveness

## PROJECTS

**Open Street Map Processing** | *C, C++*

Evanston, IL

**Class Project**

January 2024 - April 2024

- Optimized **C++ algorithms** to enhance data parsing and **augment system reliability by 35%**, resulting in a faster and more accurate transport tracking system using real-time API data.
- Processed **large-scale OpenStreetMap datasets** achieving a **25%** reduction in processing time by designing efficient data-fetching strategies and refining algorithm performance.
- Developed **unit tests** to ensure high accuracy in data parsing and API integration, leading to clear bug fixes and accurate forecasting algorithms.
- Achieved a **20-minute reduction in waiting time** as assessed by user feedback and scheduling data, by integrating CTA Bus APIs to deliver real-time predictions and accurate forecasting algorithms

## LEADERSHIP

**Phi Gamma Nu Fraternity**

Evanston, IL

**Founding Member, Alpha Chapter**

May 2024 - Present

- Actively contributed to success of the inaugural cohort of one of **the first diverse business fraternities** at my school, integrating innovative tech solutions to promote inclusivity and representation
- Spearheaded targeted workshops and peer-reviews that contributed to over **50% successful interview outcomes** enhancing technical and professional skills through collaborative efforts among members
- Created a **centralized digital career resource** hub, increasing job placements **by 40% for underrepresented minorities** through the integration of data analytics and enhanced access to diversity-focused job search tools