

# Mnumzana “Franklin” Moyo

[mfm222@cornell.edu](mailto:mfm222@cornell.edu) | [LinkedIn](#) | [Github](#) | [Portfolio](#)

## EDUCATION

**Cornell University, College of Arts & Sciences | Ithaca, NY**

**Anticipated Graduation: May 2026**

*Bachelor of Arts in Computer Science*

**Relevant Courses:** Object-oriented programming & Data Structures, Discrete Math, Machine Learning & Data Science, Functional Programming, Computer System Organization & Programming, Foundations of Artificial Intelligence, iOS Development

## SKILLS

**Technical:** Python, Java, OCaml, Swift, R, C, JavaScript, Linux/Unix, SQL, Firebase Authentication, Testing, Git

**Soft skills:** Adaptability, Problem-solving, Writing, Poetry, Servant Leadership, Tenacity, Public Speaking, English, Zulu, French

## WORK EXPERIENCE

**Emzini WeCode | Head Teaching Assistant | Bulawayo, Zimbabwe**

**April 2023 - Present**

- Mentored and aided 200 students in mastering Python programming and vital computing concepts, encompassing function design, advanced functions, control structures, recursion, and data structures.
- Created an inspiring learning environment that inspired students' passion for Computer Science. Played a key part in cultivating a dynamic community of learners, contributing significantly to fostering an interest in the subject.
- Contributed to the graduation of 70% of the students.

## PROJECTS

**Minibank | Ithaca, NY**

**April 2024**

- Designed and developed a comprehensive banking system enabling account and loan management, transaction tracking, and secure handling of user data.
- Implemented robust SQLite database operations in OCaml and ensured data integrity with efficient serialization/deserialization of complex data types via the Yojson modules.
- Enhanced user experience and security by implementing features for account creation, balance updates, loan payments, password reset, and secure account deletion.

**StudySpace | Ithaca, NY**

**May 2024**

- Developed the iOS app using Swift and SwiftUI, to enable students to book study spaces in the library.
- Integrated the app with university APIs to fetch real-time data on room availability and utilized Node.js and Express for server-side operations and to handle API requests and responses.
- Collaborated with a team to implement key features including user authentication, room availability display, and booking management.

**Brewery Finder App | Introduction to Android Development with Codepath | Ithaca, NY**

**April 2023**

- Crafted an Android application using Kotlin and XML to seamlessly exhibit images and textual content obtained from asynchronous API requests.
- Utilized AsyncHttpClient to facilitate the transmission and interpretation of network and JSON data, enabling the retrieval of images and text from online sources.
- Devised a functional button that works with a search functionality to trigger fresh API queries, dynamically refreshing the displayed data and enhancing user interactivity.

**Introduction to Machine Learning & Data Science | Freshman Project Team | Ithaca, NY**

**May 2023**

- Conducted in-depth analysis on housing and rent dataset, successfully identifying pivotal factors driving rental prices.
- Leveraged advanced data visualization methods including heat maps and correlation matrices to reveal meaningful insights.
- Enhanced the accuracy of predictions by 60% using predictive models like linear and logistic regressions, classifiers, and decision trees.

**Firebase Authentication System | Ithaca, NY**

**September 2022**

- Engineered an intuitive XML layout facilitating seamless email-based registration and login functionalities.
- Utilized FirebaseAuth objects with onClickListeners to establish a seamless and secure user authentication flow in Java.
- Implemented dynamic Toast messages to communicate clear outcomes of login and registration attempts.

## LEADERSHIP

**Co-corporate Chair in Underrepresented Minorities in Computing (URMC) | Ithaca, NY**

**September 2022 - Present**

- Managed interactions with prospective sponsors for URMC, facilitating various forms of sponsorship engagement.
- Regularly updated the resume book and distributed it to company sponsors, ensuring representation of students' achievements.
- Outlined URMC's sponsorship opportunities, enhancing clarity and effectiveness in conveying offerings to potential sponsors.