Mnumzana “Franklin” Moyo

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# 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 Swift UI, 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 FireAuth 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.