

Franklin Moyo

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EDUCATION

Cornell University, Ithaca, NY

Anticipated Graduation: May 2026

Bachelor of Computer Science

Courses: Object-Oriented Programming & Data Structures, Discrete Math, Machine Learning & Data Science, Functional Programming, Computer System Organization & Programming, Database Systems, Linear Algebra, Foundations of Artificial Intelligence, iOS Development, Full-stack web development

SKILLS

Languages: Python, Java, OCaml, Swift, R, C, JavaScript, HTML, CSS, React, SQL, Kotlin

Tools: GitHub, OpenAI API, Linux/Unix, VSCode, Xcode, Node.js, Express.js, REST APIs, Firebase, AWS, PostgreSQL, Angular

WORK EXPERIENCE

Head Teaching Assistant at Emzini WeCode | Bulawayo, Zimbabwe

April 2023 - Present

- Mentored 200 students in mastering Python programming and vital computing concepts, encompassing function design, advanced functions, control structures, recursion, and data structures.
- Played a key part in cultivating a dynamic community of learners, contributing significantly to fostering an interest in the subject which led to the graduation of 70% of the students.

PROJECTS

AI-Powered Mental Health Journaling App

June 2024

- Developed an AI-powered chatbot using OpenAI's GPT-4 to interact with users, offering empathetic responses and personalized feedback on journal entries.
- Implemented secure user data storage and dynamic feedback notifications using Firebase Firestore, creating a supportive and engaging journaling experience.

Minibank System Project

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 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.

Study Space App

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.
- Implement key features including user authentication, room availability display, and booking management.

Brewery Finder App

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.

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.

HONORS

- CODE 2040 Fellow
- Candidate for the FR Hugh Ross SJ Memorial Scholarship