

# James Muguiyi

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## EXPERIENCE

### Simon Business School

IT Consultant

Rochester, New York

May 2021 – Present

- Work with various clients to solve issues related to software installation, network connections, and hardware issues.
- Aid professors and presenters with navigating classroom technologies including projectors, Crestron panels, and Zoom.
- Support faculty and staff maintain large collections of employee, student and class information with the help of Echo360, JIRA alongside various University integrated systems and applications.

### University of Rochester

Web Developer

Rochester, New York

Oct 2022 – Present

- Updated the University IT's student-built logistics web app, LASSO, using React and Node.js and Express, integrating new design elements and functionalities, resulting in almost 50% less complaints, bugs and other user reported issues.
- Spearheaded the integration of Google's Sign-in and Calendar APIs, empowering students and staff to effortlessly sync their schedules with personal calendars. Resulted in a 26% reduction in scheduling conflicts and improved overall time management efficiency.

### Acting Globally

Web Developer

Remote

Sep 2023 – Present

- Worked with four developers to create collaborative tools for volunteers and grassroots groups, enabling streamlined partnerships and expanded service capabilities.
- Designed features to facilitate collaboration, fostering efficient communication and resource sharing among users.
- Engineered a highly efficient back-end system that streamlined data maintenance and retrieval processes resulting in faster retrieval and updating across three distinct databases.

### SEO Career

Tech Developer Intern and SEO EDGE Participant

Remote

June 2022 – May 2023

- Participated in a long-term career preparation and mentorship program to develop technical and career skills.
- Completed 300+ hours of technology-focused training on software development, databases, testing, and implementation.
- Designed web applications using Python, HTML, CSS, and MySQL.

### University of Rochester

Workshop Leader / Teacher's Assistant (Intro to Python Programming)

Rochester, New York

September 2021 – December 2021

- Mentored and guided a group of 12 students through weekly engaging sessions utilizing thought-provoking questions and problem-solving activities to improve overall understanding of course material and boost student retention.
- Facilitated grading as well as aided students with problems pertaining to course work.

## PROJECTS

### American Sign Language (ASL) Reader

Python

Libraries: OpenCV, MediaPipe, Numpy, CVZone

- Developed a script utilizing Python's OpenCV and Mediapipe computer vision libraries to detect hand gestures and extract relevant landmarks from real-time video streams.
- Created a separate script that allows images to be captured from the real-time video streams and saved to add to the list of data used to train the model with the aim of improving recognition accuracy.

### Face Recognition Attendance Tracker

Python

Libraries: Pickle, Face-recognition, CVZone, Firebase, Numpy

- Employed image processing techniques and the use of the face-recognition and firebase-admin libraries to handle face detection, recognition, and matching against a database of known individuals.
- Implemented data serialization using the pickle library to efficiently store and retrieve facial recognition models, enhancing performance.

## TECHNOLOGIES

Python, C++, C#, JavaScript/TypeScript, React, Next.js, NoSQL (MongoDB, DynamoDB,), SQL (Postgres), HTML/CSS, Tailwind, Linux

## EDUCATION

University of Rochester

Rochester, New York

Bachelor of Arts in Computer Science and Minor in Psychology

Fall 2020 – Fall 2024

Courses: Data Structures and Algorithms, Mobile development (Android), Web Development, Introduction to Artificial Intelligence