

# Mouhamed Mbengue

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A motivated and versatile computer science student willing to contribute beyond the classroom, with a strong foundation in Mathematics, logic, and coding.

## EDUCATION

University Of Rochester | Rochester, NY

May 2026

Bachelor Of Science, Computer Science

Code With Mosh

February 2023

Master Certificate: JavaScript, CSS, & HTML

**Relevant Courses:** Data Structures & Algorithms, Discrete Mathematics, Linear Algebra, Calculus I, Calculus II, and III

## TECHNICAL SKILLS

**Languages & Technologies:** Java, C, JavaScript, CSS, PHP, Markup, React, React-Native, Git, Python, Jupyter, Azure, and Mongo DB.

**Operating Systems:** Windows XP/Vista/7/8/10/11, macOS

## EXPERIENCE

Karpool

May 2024 - July 2024

Software Engineer Intern

Cape Town, South Africa

- Designed and implemented A user settings page with **React-Native**, allowing users to customize their preferences. Utilized backend services to securely store and manage user preferences.
- Created multiple backend functions using **Node.js** and **Azure Functions** to handle user creation and data management.
- Implemented backend logic** that enhanced app features, leading to a **15% improvement** in overall app performance and reducing user-reported issues by **25%**.
- Developed multiple features for the React-Native app to improve user experience and interface. Such as implementing a Report User function to report other user's inappropriate behavior.
- Developed backend functions to allow users to upload files of their choice, ensuring secure storage and seamless retrieval. **Created secure file upload functionality**, handling **over 1,000 file uploads weekly**, with zero reported data breaches.

BM Prime Capital

JAN 2024 - APRIL 2024

Software Engineer Intern

Remote

- Utilized PHP, JavaScript, ReactJS, TypeScript**, and database management to increase operational efficiency across **5 major projects**, reducing project timelines by **15%**.
- Executed comprehensive data fetching** from a CMS user base enhancing data quality and accessibility, leading to a **10% increase** in user engagement.
- Led the migration and integration of numerous key APIs**, ensuring seamless data flow, resulting in a **25% reduction** in data transfer errors and improving client-side performance by **20%**.
- Collaborated in a dynamic team environment**, adapting to rapid changes, which contributed to completing **3 major project milestones** ahead of schedule.

MAMUN'S TUTORIAL

SEPT 2019 - DEC 2019

Afterschool Tutor

New York, NY

- Tailored lessons** in math and English for **15+ students**, achieving an average improvement of **2 letter grades** in student performance within a **3-month period**.
- Effectively managed time to meet individual learning needs, **resulting in 100% positive feedback** from students and parents.

## PROJECTS

Breast Cancer Tumor Prediction Model | <https://github.com/MouhamedMB15/BreastCancerML>

Python | Jupyter | JavaScript | React

- Developed a **machine learning application** to predict whether a breast cancer tumor is malignant or benign based on various input fields.
- Utilized **Logistic Regression** with hyperparameter tuning via **Random Search CV**, trained on a breast cancer dataset.

Full Stack SWE Blog App | <https://github.com/MouhamedMB15/SWEBlogApplication>

Node.js | Express.js | JavaScript | React | MongoDB

- Created a **Software Engineering blog platform** using the **MERN stack**, allowing users to create, manage, and view blogs with features like **user authentication** and **category filtering**.
- Implemented a **responsive design**, backend with **Node.js** and **Express.js**, **MongoDB** for the database, **Cloudinary** for file storage, and **JWT** for authentication.

Real-Time Chat App With Open AI Integration | <https://github.com/MouhamedMB15/GPTCHATAPP>

Node.js | Redux | Express.js | React

- Developed a **real-time chat application** that integrates with **OpenAI's GPT-3.5 API** for interactive AI-based conversations.
- Implemented real-time messaging using **WebSockets** for instant communication between users.
- Built **user authentication** with secure login and registration functionality using **JWT** and **ChatEngine.io** for message handling.