

# Mouhamad Mamane

[mmm466@case.edu](mailto:mmm466@case.edu) | (440) 771-3972 | [mouhamad.github.io](https://github.com/mouhamadmm) | [linkedin.com/in/mouhamadmm](https://www.linkedin.com/in/mouhamadmm)

## EDUCATION

---

Case Western Reserve University – Cleveland, Ohio | GPA (mid-term): 4.0

Expected Graduation: May 2029

Bachelor of Science in Computer Science | Minor: Artificial Intelligence

Relevant Courses: Java Programming, Calculus III, Data Structures

## PROJECTS

---

UwcNiger Connect (Link: )

ASP.NET Core Web API, Blazor WebAssembly, SQL Server

- Designed and deployed a secure full-stack platform enabling **30+** UWC students from Niger to access academic resources and alumni guidance.
- Built a role-based authentication system and an administrative dashboard for managing testimonials and users, reducing inappropriate submissions by **30%**.
- Increased resource accessibility and community engagement impacting **40+** students and alumni.

AI Study Assistant (Link: )

Python, NLP, Transformers, OpenAI API

- Developed an AI-powered study assistant used by **15+** students to summarize notes, generate practice questions, and answer conceptual queries.
- Implemented NLP pipelines and prompt-engineering workflows to deliver accurate, context-aware explanations.
- Improved students' study workflow by automating repetitive tasks and enabling faster comprehension through AI-driven insights.

## EXPERIENCE

---

CWRU ColorStack | Cleveland, OH

September 2025 - Present

Freshman Representative

- Collaborated with executive board members to organize a career-focused event attended by **40+** CS students, connecting them with alumni and internship resources.
- Launched and coordinated an ongoing freshman mentorship program, successfully pairing **15+ students** with upperclassmen and project teams to accelerate skill-building through hands-on coding initiatives.
- Collected and synthesized member feedback, influencing board decisions that improved freshman retention by **20%**.

Gabera Software | Niamey, Niger

July 2025 - August 2025

Software Engineer Intern

- Collaborated with mentor and project manager to develop and secure a .NET minimal API with role-based authorization, enabling instructors to retrieve individual student grades for **500+** students.
- Applied debugging and testing strategies to improve reliability and gained hands-on experience in Agile development and code reviews.

United World College | Freiburg, Germany

October 2024 - May 2025

Teaching Assistant for Math AA

- Supported **20+** students weekly through office hours, personalized guidance, and exam-preparation strategies.
- Collaborated with math teachers to refine curriculum materials based on recurring student challenges, improving overall comprehension.

High School of Excellence of Niger | Niamey, Niger

October 2022 - July 2023

President of Student Body

- Represented **200+** students in meetings with faculty and government officials, ensuring student concerns directly influenced school policy.
- Co-led the creation of the school's first mental-health support service, improving student well-being by **70%** through new peer and faculty support systems.

## SKILLS

---

- Languages:** C#, Java, Python, JavaScript, HTML, CSS, SQL.
- Frameworks & Tools:** .NET, Blazor, Next.js, React, PyTorch, TensorFlow, SQL Server, Git, GitHub, Visual Studio.