

# Ousman Bah

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## EDUCATION

**Florida International University** | Cumulative GPA 3.77

**Bachelor of Science: Computer Science**

**Relevant Coursework:** Python programming I & II, Data-Structures & Algorithm, Discrete Math, Calculus I, Web development, Intro to Technical Interview, Programming in Java I & II, Data Structures.

## TECHNICAL SKILLS

**Programming Languages:** Python, HTML, CSS, JavaScript, Java

**Technologies:** Django, Docker, PostgreSQL, GitHub, Vs Code, Spring Boot

## EXPERIENCE & LEADERSHIP

**ICPC (International Collegiate Programming Contest) & ShellHacks Hackathon**

Sept 2024 & Oct 2024

- Represented MSUM and the lead team for FIU in the "ICPC", showing high problem-solving abilities and teamwork.
- Participated in ShellHacks, Florida's largest hackathon, attending workshops and gaining hands-on experience in Machine Learning, Web Development, and Robotics, while enhancing coding skills in a collaborative environment.

**ACM Club MSUM | Computer Science Club | Moorhead, MN**

Aug 2023 – July 2024

- Secured 2nd place in ACM programming contest on campus, showcasing strong coding proficiency.
- Conducted peer-to-peer tutoring sessions, helped 5 students improve their programming skills in a Python class, twice weekly. All students earned grades of B or higher.

**Minnesota State University Moorhead | Student Dispatcher | Moorhead, MN**

Oct 2023 – July 2024

- Handled emergency calls, coordinated complex situations under pressure, and worked with team members to ensure campus safety.

**Ministry of Finance and Economic Affairs | Accounts Clerk | The Gambia**

Jan 2020 - Aug 2023

- Provided support to implement the first electronic fund transfer system for The Gambia Government payment gateway acted as a bridge between accountants and software Vendors. Trained other accountants to use the system.
- Enhanced financial accountability through efficient data management and record-keeping and revenue collection.

## PROJECTS

**AI-Powered Web Application with Audio Analysis and Text Generator**

June 2024 & Oct 2024

**Main technologies:** Django python, Open Ai, Html, CSS, JavaScript

- Built a Django-based web application that uses OpenAI's GPT-4 models for text chat, podcast, and transcription generator.
- Integrated user login system and chat functionality, proving proficiency in backend development and database.
- Built the audio transcription and audio generation (podcast) feature using Open Ai's Whisper model, displaying skills in API integration, and handling multimedia data.
- Created a lecture notes summarizer, which also generates practice questions for students.

**Recipe Management API with Docker and TDD**

April 2024

**Main technologies:** Django REST Framework, PostgreSQL, Docker Compose, Python, TDD

- Developed a comprehensive Recipe Management API with models, serializers, and secure user authentication, demonstrating advanced backend development skills.
- Implemented Docker containerization and applied Test-Driven Development (TDD) methodologies to ensure code reliability and consistency across environments.
- Designed models and serializers for recipes, ingredients, and tags, showcasing database design and API structuring capabilities. Designed endpoints for image upload, managed multimedia capabilities, and utilized Git for version control and collaborative development practices.

**Financial Transaction Management System**

Dec 2023

**Main technologies:** Python

- Executed a CSV-based system for supervising financial transactions using Python.
- Developed functions to add, view, and summarize transactions, showing strong skills in data manipulation and processing with Pandas and established visualization feature using matplotlib to plot income and expenses over time.

## INTERESTS & EXTRACURRICULAR ACTIVITIES

**Organizations:** African Students Union, MSUM Center for Inclusion, Moorhead Rugby, FIU Panther Camp, Init FIU, Code Path

**Hobbies:** Soccer, basketball, and competitive programming.