

# Ramatoulaye Bah

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## EDUCATION

### Macalester College

*Bachelor of Arts in Computer Science and Linguistics, Minor in Spanish, GPA: 3.87*

St. Paul, MN

Sept. 2023 – May 2027

### United World College Maastricht

*International Baccalaureate*

Maastricht, Netherlands

Sept. 2021 – May 2023

## EXPERIENCE

### Software Engineering Fellow

*Headstarter AI*

July 2024 – Present

*Remote*

- Built and deployed 5+ AI projects in 5 weeks using React JS, Next.js, Firebase, and Vercel, following agile methodologies with weekly sprints and incorporated CI/CD practices for iterative deployment
- Developed projects from design to deployment leading 4+ engineering fellows using MVC design patterns
- Participated in weekly sessions with engineers from Google, Y Combinator, Stanford, Amazon and venture-backed startups

### Core Concepts in Computer Science Teaching Assistant

*Macalester College*

Sep. 2024 – Present

*St. Paul, MN*

- Worked with a class of 60+ students in order to build their knowledge of key concepts and help them problem solve with Python
- Hosted office hours to assist students with questions
- Graded and provided feedback on student's homework assignments

### MSCS Student Advisory Board Member

*Macalester College Mathematics, Statistics, Computer Science Department*

Sept. 2023 – Present

*St. Paul, MN*

- Organized and participated in workshops (e.g. creating a DS Portfolio Website using RStudio, Introduction to LeetCode)
- Led monthly BIPOC in MSCS nights which included taking care of the logistics, providing food, setting up the space and promoting the event
- Planned career-related events such as Summer Opportunities Mentorship Panels and Seminars
- Coordinated Student Feedback Sessions to close the gap between faculty and students and improve overall satisfaction

## PROJECTS

### WaterWise - Water Consumption Tracker Website | *Next.js, React, OpenAI, Pinecone, Vercel* August 2024

- Developed a water consumption tracker with 150+ users using Bootstrap, HTML and CSS setting up real-time data visualization
- Built an interactive and responsive AI Customer Support Chatbox using Next.js and React
- Integrated a custom RAG pipeline using OpenAI and Pinecone enabling users to get instant support and answers to questions about the website's features and water conservation tips

### Inventory Management | *Next.js, React, Firebase, Vercel, CI/CD*

July 2024

- Developed a pantry tracker web app designed to help users manage their inventory efficiently, minimizing food waste and ensuring essentials are always available
- Implemented the frontend interface using React Native, ensuring a seamless user experience on both iOS and Android platforms
- Generated a real-time database using Firebase, allowing users to update and sync their pantry data across multiple devices

## TECHNICAL SKILLS

**Languages:** Python, Java, C, HTML/CSS, JavaScript, SQL, R

**Frameworks:** React, Node.js, Bootstrap, Next.js, Material-UI

**Developer Tools:** Git, Google Cloud Platform, VS Code, PyCharm, Git, GitHub, Firebase, Vercel, VS Code, npm