

Shouhaybou Mbow

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EDUCATION

NEW JERSEY INSTITUTE OF TECHNOLOGY M.S. IN DATA SCIENCE

May 2025 | Newark, NJ
GPA: 3.4

NEW JERSEY CITY UNIVERSITY B.S. IN COMPUTER SCIENCE

May 2023 | Jersey City, NJ
GPA: 3.6

SKILLS

PROGRAMMING LANGUAGES

Java • JavaScript • TypeScript • Python
SQL • R

DATA SCIENCE & MACHINE LEARNING

Deep Learning • Data Analysis • ML
Big Data • Statistics • Data
Visualization • AWS • Tableau

BACK-END DEVELOPMENT

Prisma • Express.js • Swagger
RESTfull APIS • Redis • Docker
Node.js

AWARDS

GOthic KNIGHT AWARDS STUDENT ACTIVITIES BOARD PRESIDENT

May 2022 | Jersey City, NJ

- Recognized as Outstanding Student Leader of the Year for exceptional leadership and positive impact across the student body.

LEADERSHIP HONOR SOCIETY | VICE PRESIDENT OF SGA

CHI ALPHA HONOR SOCIETY | OPPORTUNITY SCHOLARSHIP PROGRAM RECIPIENT

CERTIFICATIONS

- DATA ANALYSIS WITH PYTHON CERTIFICATE, FREECODECAMP
- GOOGLE DATA ANALYTICS CERTIFICATE

WORK EXPERIENCE

U.S DEPARTMENT OF STATE | DATA SCIENCE INTERN

September 2024 - May 2025 | Washington, DC

- Benchmarked Google Cloud vs AWS AI platforms (Vertex AI vs Bedrock) across 10+ generative tasks, identifying a 20-30% performance delta in model latency and output quality.
- Fine-tuned and evaluated 5 large language models, achieving up to 40% reduction in inference cost and 25% improvement in scalability underload.
- Build a chatbot to summarize diplomatic files with 87% accuracy and 92% precision, reducing manual analysis time by 60% and providing actionable insights for modernization initiatives.

NEW JERSEY CITY UNIVERSITY(STEM) | RESEARCH INTERN

May 2022 - July 2022 | Jersey City, NJ

- Built AWS DeepRacer telemetry pipelines and reinforcement learning experiments that cut lap time 20% and raised obstacle avoidance to 95%.
- Presented technical findings and reinforcement learning concepts to diverse audiences, translating complex technical information for both technical and non-technical stakeholders.

APPLE | PRODUCT ANALYST

July 2025 – Current | New York City, NY

- Develop and implement LLM-powered product features using techniques such as Retrieval-Augmented Generation (RAG), prompt engineering, and vector databases to enhance search, recommendations, and intelligent assistants.
- evaluate machine learning and NLP models, integrating LLM pipelines with product systems while monitoring performance, accuracy, and latency.
- Collaborate with product managers, engineers to translate business requirements into scalable AI solutions

TECHNICAL PROJECTS

BRAIN TUMOR CLASSIFICATION

- Built a CNN model using Python and TensorFlow to classify brain tumors from 1K+ patient images, achieving 85% accuracy through optimized architecture and feature analysis.

FOOD DELIVERY PLATFORM

- Building a production-ready food delivery platform using TypeScript, Express.js, Prisma, PostgreSQL, and Redis with 50+ REST endpoints, real-time order tracking, and financial accounting, achieving 50ms response times and scalability for 10,000+ concurrent users.

LEADERSHIP EXPERIENCE

STUDENT ACTIVITIES BOARD | PRESIDENT

Sep 2021 - May 2023 | Jersey City, NJ

- Served as President of the Student Activities Board, overseeing event planning, budget management, and team coordination to deliver engaging campus programs
- Collaborated with university administration, student organizations, and vendors to plan and execute diverse campus events aligned with student interests and university policies