

# 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 | SPECIALIST

July 2025 – Current | New York City, NY

- Drive business introductions and conversions, achieving 35% business conversion rate and exceeding the 20% target, directly contributing to store revenue growth.
- Curate comprehensive business download guide providing best practices and strategies for employees to enhance business customer engagement and sales effectiveness.
- Partner with leadership on continuous improvement pilots and enablement, sustaining a 100% Team Member Score.

## 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