Deborah Olaniyi

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Education

New York Institute of Technology — Manhattan, NY
Bachelor of Science in Computer Science — GPA: 3.55 — *Expected Graduation - May. 2028*

Technical Skills

Languages: HTML/CSS, JavaScript, Python, MatLab, Java
Frameworks/Libraries: Bootstrap, Flask, React, Tailwind, Next.Js, FastAPI, Zustand, LangChain,Pandas, NumPy, Matplotlib, Seaborn, Qiksit, YFinance
Developer Tools: Git, GitHub, VS Code, PyCharm, Jupyter Notebook, Softr, Figma, Google Colab

Experience

Quantum Computing Intern — Jun. 2025 – Present
The Coding School — *Remote*

- Researched protein-folding simulations using quantum algorithms **(Qiskit**) under an AWS mentor, optimizing molecular models for **drug discovery applications**.
- Demonstrated 2x faster search capabilities vs. classical computing by implementing Grover's algorithm, improving circuit reliability by **25%** error mitigation.
- Collaborated in a **3-person** research team using **Google Colab** and **Qiskit** to analyze entangled circuits for quantum optimization and search problems.

Machine Learning Fellow — Jun. 2025 – Present
AI4ALL — *Remote*

- Built a Jupyter-based financial dashboard using **NumPy** and **Matplotlib,** increasing ML model interpretability and investment confidence by **40%.**
- Developed a prototype **stock and bond recommender** for college students, reducing risk scores and improving portfolio balance predictions by **20%.**
- Collaborated with a mentor to analyze real-world financial data using **Yfinance** and apply supervised ML models with improved preprocessing accuracy **(95%+)**.

Python Instructor — May 2025 – May 2025
Stanford University — *Remote*

- Led weekly peer sessions for **20 students,** boosting collaboration and raising project scores by **15%**.
- Mentored students through debugging and project walkthroughs, resulting in a **95%** course completion rate.
- Organized weekly **interactive group sessions** and provided daily live support, resulting in a 30% increase in student engagement

Software Engineering Intern — Jul. 2024 – Dec. 2024
Intech Foundation — *Remote*

- Built InTech Chatspace, a secure messaging app for teens, reducing latency by **50%** using **JavaScript** and **Softr** for UI implentation.
- Boosted engagement by **25%** and increased session duration by **30%** through UX-focused design and user testing
- Implemented **CI/CD pipelines** with GitHub Actions to automate testing, **streamline deployment**, and accelerate feature delivery.

Projects

Sustainify | *React, TailwindCSS, DaisyUI, Zustand, Chart.js, Vite*

- Developed Sustainify, a **React-based** real-time carbon tracker with personalized goal-setting, leveraging **Chart.js** for data visualization; **won 2nd place** at school hackathon.

CashCat | *React, Next.js, Flask, MongoDB, NESSIE API, LangChain, RAG*

- Built CashCat, a budgeting app with AI-powered financial tips using **LangChain** and **RAG**; improved budgeting accuracy for student testers and implemented **full-stack authentication.**

Educational Trends | *Python, Matplotlib, NumPy, Pandas, Seaborn, Jupyter Notebook*

- Identified **20% performance** gaps in low-income students and **30% improvement** with tutoring access; visualized insights to support education equity policies.