

# Jawad Kabir

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## EDUCATION

**The City College of New York (CUNY)**

Aug. 2021 – May 2026

Bachelor of Science, Major in Computer Science, Minor in Mathematics

GPA: 3.46 - Dean's List

**Cornell University**

May 2024 – Aug. 2024

Machine Learning Foundations Certificate, Break Through Tech AI

## RELEVANT COURSEWORK

Data Structures, Algorithms, Databases, Calculus, Linear Algebra, Probability Theory, Computer Networks, Computer Security, Software Design Lab, Theoretical Computer Science, Programming Paradigms

## SKILLS

**Programming Languages:** Python, SQL, JavaScript, HTML/CSS, Scheme (Lisp), LaTeX, C

**Frameworks:** Flask, MongoDB, PostgreSQL, Firebase, FastAPI, LangChain, OpenAI, Pandas, Node.js, React

**Technologies:** Google Cloud, Azure, Microsoft SSMS, MySQL, Excel, VSCode, GitHub, WSL2, Docker

## WORK EXPERIENCE

**Emerald Energy Internship – SWE Intern**

May 2024 – Jul 2024

- Eliminated the need for physical manuals for over 200 hardware components by orchestrating a team of 5 software engineers to develop an intelligent **RAG** chatbot.
- Developed a chatbot that guides mechanics in identifying components and following detailed step-by-step instructions by utilizing a comprehensive dataset of 100 installation manuals.

**NYC Black Chamber of Commerce – Data Analyst, Web Designer**

June 2021 – Aug. 2021

- Increased website traffic by 500 unique visitors per month by revitalizing the design and user experience for the official website of NYCBCC using Squarespace.
- Orchestrated outreach initiatives, connecting with over 25 small businesses and providing access to more than \$100,000 in grant opportunities.

## RELEVANT EXPERIENCE

**CUNY Tech Prep Fellowship – Data Science Fellow**

June 2024 – May 2025

- Will strengthen operational efficiency by 15% by analyzing a dataset of over 10,000 records using **NumPy** and **Pandas**, resulting in reduced data processing times and lower error rates.
- Will improve prediction accuracy by 15% by building and evaluating over 10 machine learning models using **scikit-learn**, resulting in enhanced precision and recall measurements compared to baseline models.

**Break Through Tech AI @Cornell Tech Fellowship – AI/ML Fellow**

May 2024 – May 2025

- Selected alongside 300 fellows from a pool of over 3,000 applicants to participate in a year-long fellowship supporting underrepresented groups in AI, ML, and Data Science.
- Will develop a machine learning solution for a real-world business by collaborating with a team of 4 and leveraging industry-standard tools, resulting in improved performance metrics such as processing time and accuracy compared to pre-implementation benchmarks.

## PROJECTS

**Dev Fest 2024 Hackathon Project: Carbon Route**

Jan. 2024 – Jan. 2024

- Promoted eco-friendly shipping practices and increased user engagement by 25% by building a website that calculates the carbon emission of a package using **Google's Map API**, **Matrix API**, and the **Carbon Interface API**.
- Achieved a 25% increase in user engagement by implementing a user-friendly interface that provides real-time carbon emission estimates for package deliveries.

**Twitter Clone: Utopia**

Sept. 2023 – Dec. 2023

- Constructed a high-performance SQL database using **PostgreSQL**, supporting over 50,000 user profiles with response times under 100 ms by optimizing indexing and query performance.
- Ensured high reliability and a seamless user experience for more than 100 simultaneous users by implementing efficient data models and fine-tuning queries.

## EXTRACURRICULARS

**B.Y.T.E. Club – Cofounder and Project Development Overseer**

Jan. 2024 – Present

**CCNY ACM Club – E-board Member**

Sept. 2023 – Present