

# Maheen Russell

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## EDUCATION

### New York University

New York, NY

B.A. in Computer Science and Data Science (Joint Major)

Expected May 2027

Related Coursework: Principles of Data Science, Data Structures & Algorithms, Discrete Mathematics, Linear Algebra

## EXPERIENCE

### Dunkin'

March 2021 – Present

Branch Finances Management

New York, NY

- Consolidating and analyzing weekly, monthly, and yearly financial reports for franchisee using **Excel**.
- Reconciling **over 100** daily sales reports of customer transactions in **Oracle**.
- Constructing weekly employee schedules and organize office materials.

### Buildspace

June 2024 – July 2024

Software Developer — [View Work](#)

Remote

- Developed a **neural network model** from scratch (no TensorFlow or PyTorch) using **NumPy** to classify handwritten digits from the **MNIST dataset**, achieving **85%** accuracy.
- Preprocessed and normalized dataset of **60,000** training images and **10,000** testing images with pandas, ensuring efficient data input and optimal model performance.
- Implemented **ReLU** and **softmax** activation functions to introduce non-linearity and generate output probability distributions, enhancing model decision-making.
- Fine-tuned hyper-parameters, including learning rate and iterations, to optimize weight and bias updates, boosting model training efficiency.

### Verste

June 2022 – Aug 2022

Web Development and Graphic Design Intern

Remote

- Developed infographics and flyers to increase interaction on social media for a non-profit.
- Collaborated with team to edit and draft website in **HTML, CSS, and JavaScript (UI/UX)**.
- Simplified over **15** research articles for website content.

## PROJECTS

### AI Chatbot

[GitHub](#) | [Deployment](#)

- Developed an **AI chatbot** integrated with OpenAI's **GPT-4**, implementing system prompts for clear and respectful user interactions.
- Handled **API requests** and **responses**, including streaming and **real-time** data processing, to provide timely and accurate answers.

### Maze Solver

[GitHub](#)

- Developed a **Python script** implementing a **breadth-first search (BFS)** algorithm to find the **optimal path** in a maze using the **curses** library.

### Inventory Manager Web App

[GitHub](#) | [Deployment](#)

- Built a web application for managing pantry and storage items using **Next.js** and **Majuro UI** components, incorporating full **CRUD (Create, Read, Update, Delete)** functionalities to enhance inventory management.
- Integrated **Firebase** for real-time data synchronization and persistent local caching with **Firestore**, ensuring reliable performance and offline accessibility.

## LEADERSHIP

### TechTogether - Founder

July 2024 - Present

- **Founded** a Discord study group with **over 30 members** focused on collaborating ideas, sharing advice, and practicing the technical interview process, preparing students for the **software engineering** industry.

## SKILLS

**Technologies:** Python, Java, HTML, CSS, JavaScript, Microsoft Word, Excel, GIMP

**Tools:** Firebase, Vercel, VSCode, PyCharm Matplotlib, Anaconda, Oracle, Figma, Canva