

# Maheen Russell

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## EDUCATION

### New York University

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

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

New York, NY

Expected May 2026

## EXPERIENCE

### Aurangzeb

Web Developer

- Building an interactive e-commerce platform using **Next.js**, with **AWS** and **SST** for scalable backend infrastructure, enabling seamless product listing, order management, and **Lemon Squeezy API** for secure checkouts.
- Implementing **React-Three-Fiber** for 3D clothing models.
- Designing a comprehensive admin dashboard to streamline control over product drops and inventory customization.

Oct 2024 – Present

New York, NY

### Passengers United

Software Engineering Intern

- Designing a **React Native** app to enhance safety and provide convenience for NYC public transit users.
- Aggregating live traffic and safety updates from the **MTA** and crowd-sourced data into a real-time delays dashboard.

May 2024 – Present

New York, NY

### Buildspace

Software Developer — [View Work](#)

- 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.

June 2024 – July 2024

Remote

### Verste

Web Development and Graphic Design Intern

- 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**.
- Simplified over **15** research articles for website content.

June 2022 – Aug 2022

Remote

## PROJECTS

### AI Chatbot

- 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.

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

### Kalendar

- Developed an app with **Next.js** using **Postgres Realtime** features to create a unique calendar experience for friends.
- Generated high demand with a **50-person waitlist** due to popularity.

[Github](#)

### Inventory Manager Web App

- 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.

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

## LEADERSHIP

### tech@nyu - Mentor

- Selected from a competitive applicant pool to serve as a mentor in the NYU CS club, guiding peers on software engineering fundamentals and industry recruiting strategies.
- Led interactive workshops on technical skills and interview preparation, providing insights into career development within tech.

September 2024 - Present

## SKILLS

**Technologies:** Next.js, Postgres, React, React Native, Docker, Firebase, Vercel, Typescript, Figma