

# Myan Nguyen

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## EDUCATION

### Brown University

Providence, RI

*A.B. Computer Science & A.B. Applied Mathematics-Economics*

*Sept. 2023 – May 2027*

**Relevant Coursework:** *Data Structures & Algorithms, Systems Fundamentals, Discrete Structures & Probability, Mathematical Microeconomics, Statistical Inference, Linear Algebra, Multivariable Calculus*

## EXPERIENCE

### Undergraduate Research Assistant

Jan. 2025 – Present

*Brown University*

*Providence, RI*

- Incoming researcher working with **LLM** agents for medical data management (**SQL**)

### Software Engineer Intern

June 2024 – Aug. 2024

*Medtronic*

*North Haven, CT*

- Researched Generative AI technology to automate and improve quality of surgical software test protocols
- Built a **natural language processing** (NLP) model to be used as basis for **API prototype using Python**
- Began building prototype with **LangChain** & **Meta Llama 3** to create RAG flow to implement in NLP model
- Project reduces **5-8 hours/week** on manual test protocol creation (**12-15% improvement**) for each engineer across **8+ teams**

### Publication First Author

June 2022 – March 2023

*Fairfield University*

*Fairfield, CT*

- Conducted a case study on fast fashion complementary product **sustainability** and **supply chain**
- Analyzed social trends, **data**, circular economy, created environmental impact model using **IPAT equation**
- Proposed full-scope solutions implementing a circular economy in the supply chain would **reduce 32% in global fast fashion emissions**
- Submitted research publication and presented to prominent academic researchers at the **NEDSI conference, 2023**

## PROJECTS

### Developer Portfolio | *React, Next.js, TypeScript, Tailwind CSS, Git*

Dec. 2024

- Designed and developed a responsive portfolio website using **React** and **Next.js** for optimal performance
- Used **Tailwind CSS** for efficient styling and implemented dark mode by reading from local user window storage
- Used **Framer Motion** to animate smooth transitions throughout the application
- Used **Resend** and **React Email** to create and style a functioning contact email form system
- Deployed the website using **Vercel**

### Text Generation Model | *Python, TensorFlow, Keras*

July 2024

- Built and trained a **recurrent neural network (RNN)** based on a comprehensive dataset of Shakespeare's works, employing **deep learning** techniques to capture niche linguistic patterns and allow users to input prompts and outputting an accurate Shakespearean text
- Preprocessed text by vectorizing & batching training sequences, optimizing weights and improving text coherence
- Generates text based on predictive temperatures and number of characters

## LEADERSHIP EXPERIENCE

### Women in Science and Engineering Mentor, Brown University

Sept. 2024 – Present

- Advised mentees through weekly meetings, providing guidance through university course and career planning

### Club Field Hockey Co-Captain, Brown University

March 2024 – Present

- Organized all games and practices, created and executed drills and practice plans, mentored **30+ players**
- Managed annual team budget in **Excel** and merchandise, organized local clinics fundraising events

## TECHNICAL SKILLS

**Languages:** Python, Java, SQL, JavaScript, TypeScript, HTML/CSS, Tailwind CSS

**Frameworks:** React, Next.js, Node.js, TensorFlow, Keras

**Developer Tools:** Git, Visual Studio, VS Code, IntelliJ, Eclipse, Bitbucket, Jira (Agile)