

Myan Nguyen

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EDUCATION

Brown University

Sc.B Applied Mathematics-Computer Science

Providence, RI

Sept. 2023 – May 2027

Relevant Coursework: *Data Structures & Algorithms, Systems Fundamentals, Computer Vision, Logic for Systems, Discrete Structures & Probability, Statistical Inference, Linear Algebra, Multivariable Calculus*

EXPERIENCE

Undergraduate Research Assistant

Brown University

Jan. 2025 – Present

Providence, RI

- Use **LLM** agents for medical data management (**SQL**), manipulating aggregate functions in relational databases
- Build and develop experiments for a semantic window function utilizing **LLMs** and **complex event processing**

Frontend Developer

Brown Daily Herald

Jan. 2025 – Present

Providence, RI

- Implement and improve front-end features for the BDH mobile news app with **1000+** users with **React Native**

Frontend Developer

Full Stack at Brown

Jan. 2025 – Present

Providence, RI

- Build websites with **React** and **TypeScript** for student and local organizations based off of **Figma** specifications

Software Engineer Intern

Medtronic

June 2024 – Aug. 2024

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
- Reduced **5-8 hrs/wk** on manual test protocol creation (**12-15% improvement**) for engineers across **8+ teams**

Publication First Author

Fairfield University

June 2022 – March 2023

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 supply chain solutions **reducing 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

Text Generation Model | *Python, TensorFlow, Keras*

July 2024

- Built and trained a **recurrent neural network (RNN)** based on a dataset of Shakespeare's works, employing **deep learning** to capture linguistic patterns, outputting an accurate Shakespearean text based on user prompts
- Preprocessed text by vectorizing & batching training sequences, optimizing weights and improving text coherence

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

TECHNICAL SKILLS

Languages: Python, Java, SQL, C/C++, JavaScript, TypeScript, HTML/CSS, Tailwind CSS, Forge

Frameworks & Libraries: React, React Native, Next.js, Node.js, TensorFlow, Keras, Hypothesis, Motion

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