Myan Nguyen

860-876-6795 | myan_nguyen@brown.edu | https://myannguyen-dev.vercel.app/ | github.com/myan-nguyen

Education

Brown University — Providence, RI
Sc.B Applied Mathematics-Computer Science — *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 — Jan. 2025 – Present
Brown University — *Providence, RI*
- Use **LLM** agents for medical data management (**SQL**), manipulating underlying aggregate functions

Frontend Developer — Jan. 2025 – Present
Full Stack at Brown — *Providence, RI*
- Build websites and apps for student and local organizations based off of **Figma** specifications

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
- Reduces **5-8 hrs/wk** on manual test protocol creation (**12-15% improvement**) for engineers 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 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
- 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
- Can generate 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

Technical Skills

Languages: Python, Java, SQL, C/C++, JavaScript, TypeScript, HTML/CSS, Tailwind CSS, Forge
Frameworks & Libraries: React, Next.js, Node.js, TensorFlow, Keras, Hypothesis, Motion
Developer Tools: Git, Docker, Visual Studio, VS Code, IntelliJ, Eclipse, Bitbucket, Jira (Agile)