

Myan Nguyen

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EDUCATION

Brown University | *Sc.B Applied Mathematics – Computer Science* GPA: 3.8/4.0 | Sept. 2023 – May 2027
Relevant Coursework: Software Engineering, Compilers & Program Analysis, Database Management Systems, Logic for Systems, Computer Systems, Data Structures & Algorithms, Foundations of AI & ML, Discrete Structures & Probability, Linear Algebra, Statistical Inference

EXPERIENCE

- AI Researcher** | *Brown School of Engineering* May 2025 – Present
- Designed pipeline modifying LTA2V architecture for military wearables processing **10K+** one-minute epochs from **10+ PSG-validated patients**, fusing 4-limb×3-axis **actigraphy**, lifting accuracy **from 80% to 95%**
 - Benchmarked 4 architectures (Logistic Reg, Random Forest, 1D-CNN, LSTM+Attention) under LOSO CV, with an **LSTM+Self-Attention model** achieving around **90% F1 and 0.94 AUC**
 - Built **40+** unit tests, then **ablation** and **robustness** tests within an adapted LTA2V pipeline, with preliminary results showing attention-based fusion retains **85–90%** of performance under partial sensor loss
- AI Researcher** | *Brown University Database Group & Rhode Island Hospital* Jan. 2025 – Present
- Extended **VectraFlow**'s, an AI-augmented data flow system, **SQL engine** with **LLM**-powered operations to support semantic queries over unstructured clinical notes and vitals, reducing query development time by **40%**
 - Designed streaming “**semantic window**” experiments, detecting patient state changes in real time achieving low-latency processing of **1,000+ events/sec**, improving early warning sensitivity by **25%**
- Software Engineer Intern** | *Medtronic* June 2024 – Aug. 2024
- Developed and trained a machine learning pipeline using **Python**, **TensorFlow**, and **Keras** to automate surgical test protocol generation, reducing manual creation time by **5–8 hours/week** across **8+** engineering teams
 - Designed & implemented a **RAG** pipeline using **LangChain** and **Meta Llama 3** to enable context-aware **NLP** test protocol generation, improving model accuracy reducing review time by **20%**
- Frontend Developer** | *Brown Daily Herald* Jan. 2025 – Present
- Optimized media-rendering pipeline in **React Native** for **1,000+** users of the Brown Daily Herald **mobile** app
 - Implemented a **dark mode** toggle across all app pages and redesigned author article pages **responsively**

PROJECTS

- Clubs@Brown** | *Co-Founder, Full-Stack Technical Lead* March 2025 – Present
- Led **4-person team** in developing an internal **iOS** and **Android** app using **React Native** for student organization and event management serving **450+ orgs** & **1200+ club members**
 - Built real-time campus event synchronization with **Google Calendar API**, syncing **50+** events and deadlines
 - Automated admin workflows via **Firebase** Auth, Security Rules, and Functions
 - Developed a scalable **NoSQL schema** in **Firestore** to support dynamic club & user data
 - Integrated **Expo Notifications** for automated event reminders, boosting app retention & daily active users **25%**
 - Applied test-driven development (TDD) with **Jest** and **React Testing Library** to ensure robust UI and backend
- Glialink** | *Co-Founder, Product & Project Manager* June 2025 – Present
- Led **7-person team** to launch MVP of AI-powered social research funding platform, using React connecting defunded labs with public supporters, with custom recommendation **algorithms** and role-based access control
 - Delivered production-ready demo with **8+ core user flows**, onboarding **7+ research labs** for pilot program
 - Implemented **role-based access control (RBAC)** and **JWT-secured APIs** to support multi-level permissions for labs, donors, and admins
 - Designed and optimized database schema in **PostgreSQL**, **Neo4j**, and **Prisma ORM** to handle **500+** concurrent user records and scale efficiently
 - Built and deployed monorepo **CI/CD** pipeline with **GitHub Actions** + **Docker**, reducing build and deployment times by **50%** and enabling rapid iteration

TECHNICAL SKILLS

Languages & Frameworks: Python, Java, C/C++, Go, OCaml, JavaScript/TypeScript, HTML/CSS, React, React Native, Kotlin, Next.js, Node.js, TensorFlow, Keras, PyTorch
Databases & Cloud: PostgreSQL, Prisma, MongoDB, Firebase/Firestore, AWS (EC2, RDS, S3, SageMaker)
Tools: Git, Docker, npm, VS Code, IntelliJ, Figma, Bitbucket, Jira, Agile/Scrum, Expo, Android Studio, Lean Six Sigma