Dao Ho

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EDUCATION

Northeastern University — Boston, MA
B.S. in Computer Science and Finance, 3.97/4.00 GPA — *Expected Graduation May 2027*
Relevant Courses: Object Oriented Design, Algorithms, Database Design, Discrete Structures, Investments, Financial Management, Financial Accounting, Managerial Accounting, Statistics, Calculus II

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, Golang, SQL, HTML/CSS, EJS
Frameworks: Next.js, React, React Native, Tailwind, Express.JS, Plasmo.JS
Technologies: Git, Docker, MongoDB, Flask, PostgreSQL, Junit, Jest, LangChain

EXPERIENCE

DesignAI — September 2024 – Present
Software Engineer Intern — *Boston, MA*
- Spearheaded the development of a B2B image management tool that streamlined searching and organization of 6,000+ furniture data for 20+ employees
- Increased image search accuracy by 50% through implementing a RAG search system optimizing the image embedding pipeline
- Designed and implemented a scalable architecture to onboard more customers by creating optimized database schema and 10+ API's for efficient interactions with the Google Cloud Platform system

Paynalli Systems — July 2024 – September 2024
Software Engineer Intern — *Boston, MA*
- Optimized search efficiency for similar documents by designing and engineering 100% of the system's vector storage and retrieval within a RAG architecture
- Improved document search engine performance by prototyping and evaluating 3 index store technologies (Faiss, Pinecone, Chroma), leveraging Ollama embedding models and LangChain document loaders
- Secured user access by pioneering the global authentication state management through the implementation of authorization middleware

Northeastern Khoury College of Computer Sciences — September 2023 – May 2024
Discrete Structures Teaching Assistant — *Boston, MA*
- Conducted over 100 teaching sessions to facilitate student understanding of intricate mathematical concepts, including recurrence relations using big-O, proof by induction, and graph theory
- Provided comprehensive feedback on homework and exam, grading 240+ submissions

PROJECTS

Generate Product Development Studio | *React Native, Golang, Expo, Supabase* — September 2024 – Present
- Collaborated with a development team to develop a client-facing mobile application for real estate investment, integrating over 50% of API endpoints to connect the React Native frontend with Go backend logic
- Designed and implemented user authentication with Supabase Auth, securing access to key application endpoints
- Developed the home screen flow, enabling investors to explore their investments and view returns

PlanIt | *TypeScript, Plasmo.JS, Llama 3.1, Ollama* — August 2024 – September 2024
- Built a Chrome extension with Plasmo.js that leverages Llama 3.1 NLP to convert highlighted text into Google Calendar events, enabling retrieval, creation, and editing of events through Google OAuth integration
- Integrated locally hosted Ollama LLMs for offline event generation and enhanced sentence parsing accuracy through testing with NLP and RegEx-based algorithms

NUSci – Northeastern Science Magazine | *MongoDB, React, TypeScript, Jest* — January 2024 – Present
- Collaborated with a software team to build the Northeastern Magazine website, focusing on efficient data management and scalability by designing the database schema and entity relationships
- Reduced admin workload by 60% by implementing a bulk user status update feature for approving or denying multiple users in a single request
- Developed 5+ unit tested API endpoints integrated with MongoDB, ensuring secure authorization and validating responses against API models