

Dao Ho

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Education

Northeastern University

GPA: 3.97/4.0 – Dean's List

Bachelor of Science in Computer Science and Finance

Boston, MA | May 2027

Relevant Coursework: Object Oriented Design, Fundamentals of Computer Science II, Database Design, Discrete Structures, Financial Management, Financial Accounting, Managerial Accounting, Statistics, Calculus II.

Work Experience

Paynalli Systems

Boston, MA | Jul 2024 – Present

Software Engineering Intern

- Engineered vector storage and retrieval within RAG architecture, optimizing the search for similar documents.
- Prototyped and evaluated three index store technologies (Faiss, Pinecone, Chroma) using Ollama embedding models and LangChain document loaders to identify the most effective document storage stack.
- Pioneered 100% of global authentication state management via authorization middleware to secure user access.
- Developed 5+ responsive components to improve user interface consistency and experience.
- Ensured efficient team synchronization through daily updates under the SCRUM methodology.

NUSci – Northeastern Science Magazine

Boston, MA | Jan 2024 – Present

Junior Software Engineer

- Architected 100% of the schema and entity relations ensuring robust data management and scalability.
- Developed 5+ RESTful API endpoints that integrates with the MongoDB storage, rigorously testing with Jest to ensure secure and reliable authorization.
- Developed interactive frontend pages, integrating with CRUD operations to enhance functionality.
- Designed comprehensive test data to ensure thorough testing of endpoints with authorization.

Northeastern Khoury College of Computer Sciences

Boston, MA | Sept 2023 - May 2024

Discrete Structure Teaching Assistant

- 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.

Pensive Journal

Boston, MA | Sept 2023 - May 2024

Website Manager and Designer

- Published 80+ works across magazine issues, including prose, poems, and visual arts on the website.
- Designed and developed 30+ pages of issues using InDesign.
- Spearheaded event management through troubleshooting and facilitating all livestreams of the events.

Projects

FindingFishE | Next.js, Tailwind, Supabase, Python, Flask, Figma

Nov - Dec 2023

- Won MLH Diversity, Equity, & Inclusion award at HackBeanpot 2024.
- Built 100% of the interface, and fully integrated the backend with relational Supabase storage.
- Constructed Flask API calls to JSON-encode receipt images for Python backend, utilizing Natural Language Processing machine learning technology to determine if receipts are tax deductible.

Stocks: A Paper Trading Platform | Java, JSwing

Jun 2024

- Developed a GUI-based stock trading simulation using an object-oriented approach.
- Employed Command and Factory design patterns for an extendable MVC-structured project.
- Integrated Alpha Vantage API for real-time stock data and local storage to enhance user experience.
- Enabled portfolio management for creating, rebalancing, querying, and visualizing stock performance.

Art Portfolio Website | Next.js, Tailwind, Figma

Nov - Dec 2023

- Developed and deployed a responsive user web app, to ensure seamless performance across various screen sizes.
- Enhanced image rendering optimization to create a highly efficient and visually superior gallery experience.

Technical Skills

Software Languages: Java, JavaScript, TypeScript, SQL, HTML/CSS, Python, EJS, Racket

Frameworks: Next.js, React, Tailwind, Express.js, Plasm.js

Technologies: Git, Docker, MongoDB, Flask, PostgreSQL, Junit, Jest, Faiss, Pinecone, Chroma, Ollama, LangChain

Languages: English and Vietnamese