

Chau Nguyen

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EDUCATION

University of South Florida — Tampa, FL

Jan 2024 – May 2025

Master of Science in Computer Science, Specialization in Machine Learning

GPA: 4.00/4.00

Coursework: Intro to AI, Deep Learning, Computer Vision, Image Processing, Graph Theory, Data Structures, Algorithm

University of South Florida — Tampa, FL

Aug 2020 – Dec 2023

Bachelor of Science in Computer Science, Minor in Mathematics

GPA: 4.00/4.00

EXPERIENCE

Software Engineer Intern | Taperk — New York, NY

Sep 2023 – Dec 2023

- Developed the UI/UX for the iOS full-stack system using **SwiftUI** for users to accumulate points and redeem rewards at stores via **NFC** tags. Utilized **HTTP**-based backend APIs to successfully retrieve and process **JSON** data.
- Improved app response times by **40%** by incorporating persistent data storage for unique identifiers with **Core Data**.
- Reduced the app size by **52%** by refactoring the codebase and using design patterns to optimize UI components.
- Implemented unit tests and end-to-end tests with **XCTest**, resulting in a **70%** improvement in app performance.
- Utilized **Git** for effective version control, **GitLab** for CI/CD, and **TestFlight** deployment for cross-functional testing.

Undergraduate Research Assistant | University of South Florida — Tampa, FL

Jan 2023 – May 2023

- Collaborated with a team of 3 to fine-tune **GPT-3.5** models using **OpenAI** to generate questions about user dietary intake and create **Tableau** data visualization dashboards by extracting **170,000+** entries from the USDA database.
- Built a cross-platform application (iOS, Android) using **React Native** with chatbot and voice-assistant interfaces.
- Configured **MySQL** database server and performed query optimization, enhancing data retrieval efficiency by **65%**.

PROJECTS (Portfolio Website: www.minhchau.me)

EmotiSounds | Full Stack Web Development Project

- Developed a personalized music-recommendation website utilizing **MongoDB**, **Express**, **Angular**, and **Node.js**.
- Built a **CNN** model for real-time facial emotion recognition with a **94%** accuracy using **OpenCV** and **Tensorflow**.
- Formulated a case-based reasoning algorithm to enhance user affective state with curated playlists via **Spotify API**.
- Utilized **Java** to develop and optimize backend functionalities for efficient data management and caching strategies.

Remind Me | USF Hackathon Award-Winning Project

- Coded a Chrome extension web application using **React.js**, **TypeScript**, and **LocalStorage** to notify users of tasks.
- Delivered a user-friendly, responsive front-end design to boost user productivity with **HTML**, **CSS** and **Material UI**.
- Led a team of 4 with exceptional communication skills to improve web performance by **30%** by optimizing code.

Em-net | USF Hackathon Winner of CockroachDB Serverless Challenge

- Developed an iOS app using **SwiftUI** and **Solana** blockchain to incentivize user engagement at USF campus events.
- Created **SQL** database schema in **CockroachDB** and **REST APIs** via **Flask-SQLAlchemy** for system integration.
- Utilized **Selenium** to automate real-time web scraping of **1,500+** USF campus events and updating the database.
- Incorporated a pre-trained **NLP** model, DistilRoBERTa, to classify user emotions via event feedback journaling.

Rebye | Full Stack Mobile Development Project

- Developed a C2C e-commerce mobile app with **SwiftUI** and **Objective-C** for users to sell and buy items seamlessly.
- Optimized CRUD operations on **SQLite3**, reducing load times by **68%** by caching the most recently viewed items.
- Implemented user login authentication using **OAuth 2.0** and secure end-to-end payment transactions with **Stripe**.

LEADERSHIP EXPERIENCE

Association for Computing Machinery (ACM) — USF | Treasurer and Web Master

Aug 2021 - Aug 2023

- Generated **\$6,000+** in funds supporting on-campus events, tech workshops, and conferences for **500+** members.
- Devised and executed a digital marketing strategy with 3 other chair members through social media platforms and in-person campaigns, which fostered **200+** new member registrations and a **40%** increase in participation rate.

TECHNICAL SKILLS

Languages: Python, C, C++, C#, HTML, CSS, SQL, NoSQL, Java, Javascript, TypeScript, Swift, Objective-C, Dart

Frameworks: React, React Native, Angular, Vue, Express, Node, Next.js, MongoDB, PostgreSQL, MySQL, AWS, Pytest

Tools/Operating Systems: Git, GitHub, VS Code, Jenkins, Docker, Kubernetes, Jira, Agile Methodologies, Linux, Unix