Chau Nguyen

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EDUCATION

Georgia Institute of Technology — Atlanta, GA   Jan 2024 – Present
Master of Science in Computer Science, Specialization in Machine Learning   **GPA:** 4.0/4.0

University of South Florida — Tampa, FL   Aug 2020 – Dec 2023
Bachelor of Science in Computer Science, Minor in Mathematics   **GPA:** 4.0/4.0

EXPERIENCE

Software Engineer Intern | Astro Health — San Francisco, CA   June 2024 – Aug 2024
- Built a full-stack cross-platform mobile app for iOS and Android using **React Native** to assess users' mental health and stress levels, recommend meditation modules, and provide a marketplace of self-care products through **Shopify**.
- Implemented and deployed the backend in **Python** using **AWS Lambda**, with a **PostgreSQL** database indexed by user ID from **Clerk**, utilized **Docker** for building custom environment lambdas and **Jira** for project management.
- Integrated external APIs through the backend, including a generative AI chatbot with **Claude** & **AWS Bedrock**, and managed deployment using **AWS CDK** for streamlined cloud resource management.

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**.
- Implemented unit tests and end-to-end tests with XCTest, resulting in a **70%** improvement in app performance.
- Utilized **Git** version control, **GitLab** for CI/CD, and TestFlight for cross-functional testing in a **DevOps** framework.

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**.

Remind Me | *USF Hackathon 2022 Award-Winning Project*
- Coded a Chrome extension web application using **React.js**, **TypeScript**, and **Bootstrap** 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 utilizing LocalStorage.

Em-net | *USF Hackathon 2023 1st Place 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.

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, Express, Node, Next.js, MongoDB, PostgreSQL, MySQL, AWS, GCP
Tools/Operating Systems: Git, GitHub, VS Code, Docker, Jira, Agile Methodologies, Selenium, Linux, Unix