Chau Nguyen

minhchau.ng1028@gmail.com • (813) 367-6834 • linkedin.com/in/ctrbl/ • github.com/ctrbl

EDUCATION

University of South Florida | Tampa, FL   **Jan 2024 - May 2025**
M.S. in Computer Science, Specialization in Machine Learning   **GPA:** 4.00/4.00
Coursework: Intro to AI, Deep Learning, Computer Vision, Image Processing, Data Structures, Algorithms, Graph Theory

University of South Florida | Tampa, FL   **Aug 2020 - Dec 2023**
B.S. in Computer Science, Minor in Mathematics   **GPA:** 4.00/4.00

EXPERIENCE

Software Developer Intern | Taperk | New York, NY   **Sep 2023 - Dec 2023**
- Developed the front end for iOS full and instant apps using **Swift**, enabling customers to accumulate points and redeem rewards at stores with a simple tap via **NFC** tags. Utilized backend APIs to fetch and process **JSON** data.
- Improved app response times by **40%** by incorporating persistent data storage for unique identifiers.
- Reduced the instant app size by **52%** by refactoring the codebase and optimizing external libraries and media assets.
- Conducted critical bug analysis by implementing unit testing, resulting in a **20%** increase in app performance.
- Managed the app development using **Git** version control and deployed it on TestFlight for organizational distribution.

Undergraduate Research Assistant | USF | 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, extract keywords from dietary conversations, and create personalized nutrition data visualization dashboards.
- Built a cross-platform application (iOS, Android, web) using **Flutter** with chatbox and voice-assistant interfaces.
- Configured **MySQL** database server and performed query optimization, enhancing data retrieval efficiency by **35%**.

PROJECTS

Personal Website: www.minhchau.me (for additional information and project details)

GoGo - Your AI Travel Planner | ShellHacks   **Sep 2023**
- Designed the UI/UX for a mobile app using **Flutter** and integrated with **AWS** backend using **REST API** endpoints.
- Leveraged a **GPT-4.0** model to generate personalized travel itineraries based on user's budgets and preferences.
- Utilized **Google Maps API** to gather recommended location data, creating a dynamic and interactive map interface.

Em-net | USF Hack-a-Bull | 1st Place for CockroachDB Serverless Challenge   **Mar 2023**
- Developed an iOS app utilizing **Solana** blockchain technology to incentivize user engagement at campus events.
- Designed backend schema with **SQL** database **CockroachDB** and created **REST APIs** with **Flask-SQLAlchemy**.
- 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.
- Utilized design patterns to build an iOS map with **SwiftUI** and **MapKit**, displaying emoticons for user emotions.

Rebye | Full-Stack Database Design Project   **May 2022 - July 2022**
- Developed a C2C e-commerce mobile app with **Swift** and **Objective-C** for users to sell and buy items seamlessly.
- Optimized CRUD operations on **SQLite3**, reducing load times by **68%** by caching most recently viewed items.
- Implemented user login authentication with **Firebase** and expedited secure payment transactions with **Stripe**.

Remind Me | USF Hack-a-Bull Award-Winning Project   **Mar 2022**
- Built a Chrome extension utilizing **React.js**, **TypeScript**, and **LocalStorage** to notify users of to-do tasks.
- Delivered a user-friendly and responsive web design for the to-do list reminder using **HTML/CSS** and **Material UI**.
- Led a team of 4 to improve web performance by **30%** by optimizing code through exceptional communication skills.

LEADERSHIP EXPERIENCE

Treasurer and Web Master | Association for Computing Machinery (ACM) | USF   **Aug 2021 - May 2023**
- Allocated funds for **500+** members for on-campus events, tech workshops with industry companies, and conferences.
- Devised and executed a 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

Programming Languages: Python, C, C++, Swift, Objective-C, HTML, CSS, SQL, NoSQL, Java, Javascript, TypeScript
Software Tools/Frameworks: Git, React.js, Next.js, PostgreSQL, MySQL, Pytorch, Tensorflow, AWS, GCP, Flutter, Flask