

Ba Manh (Tony) Nguyen

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Portfolio: tonysprojects.netlify.app/, github.com/tonywin35

Education

Georgia Institute of Technology, Atlanta, GA

May 2026

- Bachelor of Science in Computer Science
- GT iOS Club Advanced Team
- Courses: Object-Oriented Programming, Databases (SQL), Data structures, Algorithms, Computer Architecture, Computer Networking 1 and 2, UI Design

Experience

Capstone Project for City of Atlanta

Present

- Developed a story sharing website using Javascript/Typescript, MongoDB, MapBox
- Worked with visionaries from Atlanta management and talked with potential clients
- Optimized MongoDB queries, created RESTful API endpoints, and created geolocation features

PopSign AI Research

May - July 2025

- Conducted research for a branch of PopSign mobile app, developed a storytelling ASL detector
- Developed a functional prototype app and conducted user testing
- Embedded ASL detecting machine learning models along with a backend Firebase
- Worked closely with the PopSign team, gathering feedback and advice

Grassroot LLC, Mobile App Developer

June - August 2024

- iOS Developer for a CRM startup, led the integration of APIs including: Stripe Connect (Payments), Twilio (SMS/Email), Quickbooks (Accounting), Firebase (Database)
- Mapped the UI/UX to a dynamic Swift app
- Created efficient algorithms to store, utilize, and display user data
- Developed iOS Swift app and a React-Native Android app, wrote the entirety of the endpoint using Firebase Cloud functions for the backend-api requests in Node.js

Projects

Senior Developer at iOS Advanced Club @GT

January 2024 - Present

- Developed apps as a senior developer for the advanced team at Georgia Tech
- Responsibilities include leading a team in development, backend API/databases, frontend design
- Apps were all judged at end of semester conferences
- Worked on Three, StudyBuddy, and Vineyard

PathoGenie, ML Health Predictor: Hackalytics @GT 2025

February 2025

- Built a Swift iOS app using NLP and ML to predict illnesses from user symptoms
- Created a working prototype which included a frontend SwiftUI app and a Firebase backend
- Developed a FastAPI backend to connect the app with ML models and embeddings
- Delivered a full-stack prototype in 48 hours through cross-functional collaboration

Portfolio Website

December 2023

- A website created from scratch (link above)
- Uses advanced HTML, CSS, and JavaScript, in combination to create a dynamic website with animations and interactive components
- Updated and managed through Github, utilizing Netlify to upload to the internet

Skills

Programs: Swift, Java, HTML/CSS, React-Native JavaScript, Python, SQL, TypeScript, MongoDB

Language: English, Vietnamese (native)

Other: Firebase, OOP, JavaFX, Java AWT, TKinter, REST API