

# Andy Vu

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## Education

Northwestern University, Evanston, IL

June 2026

*Bachelor of Science, Major in Computer Science, Minor in Data Science*

- **Relevant Coursework:** Fundamentals of Programming in C/C++, Intro to AI, Data Structures and Algorithms, Intro to Computer Networking, Scalable Software Architectures, Design and Analysis of Algorithms, Intro to Computer Systems

## Work Experience

SomethingSold, Evanston, IL

June 2024 – present

*Software Engineer*

- Led the development of a startup e-commerce platform, enabling college students to efficiently buy and sell furniture
- Programmed a responsive web app using *React* and developed a *REST API* service using *AWS Cloud Services*, *MySQL*, and *Node.js*, enhancing platform performance and ensuring secure data handling and communication

Northwestern University, Evanston, IL

September 2023 – June 2024

*CS Undergraduate TA*

- Led office hours for Fundamentals of Programming in C/C++, offering personalized assistance that enhanced student learning
- Guided 20+ students through concepts including abstraction, pointer and memory management, OOP, and data structures

Mayfest Productions, Evanston, IL

January 2024 – June 2024

*Mobile App Developer*

- Developed and launched the Dillo Day App using React Native, fostering event engagement among 10000+ attendees
- Secured \$3000+ in sponsorships by coordinating with the promotions and corporate committees to design a promotional UI

Infosys, Bangalore, India

June 2023 – August 2023

*Software Engineer Intern*

- Redesigned a visitor management system by developing a secure backend service with *Java Spring Boot*, *PostgreSQL*, *KeyCloak* IAM, and *Docker* for deployment, improving the user experience for over 20000 company employees
- Programmed, tested, and debugged 30+ *REST API* endpoints and created documentation to support future maintenance and scaling
- Utilized *Postman* and *jUnit* to extensively test the backend service, ensuring system functionality and reliability

## Technical Projects

Quick Mental Math App | App Store | Source Code

SwiftUI | Java Spring Boot | AWS | PostgreSQL

- Launched an iOS app that helps students efficiently learn mental math, gaining 3500+ users on the App Store
- Developed a secure *REST API* service for user management and data storage with *Java Spring Boot* and a *PostgreSQL* database, thoroughly testing it with *Postman* and *jUnit*, containerizing it with *Docker*, and deploying it on AWS with *EC2*

Nomify App | App Store | Source Code

SwiftUI | Node.js | Firebase

- Designed and deployed a personalized, generative AI food allergen assistant powered by Google's Gemini AI, utilizing *SwiftUI* for the frontend, *Node.js* to handle serverless functions, and *Firebase* for user authentication and data storage

World Relief Data Entry System

Next.js | Firebase

- Revamped a data entry system for the World Relief non-profit, benefiting 400K+ immigrants and refugees
- Coordinated with a team to develop a *Next.js* website with a *Firebase* backend, boosting operational efficiencies by 35%

Accountive App | App Store | Source Code

SwiftUI | Firebase

- Deployed an iOS app that helps users form better habits by notifying their friends when a daily task is completed
- Leveraged *Firebase* for push notifications, automating tasks, user authentication, data storage, and handling serverless functions

## Skills and Interests

**Languages / Frameworks:** Python, Java, Javascript, HTML, CSS, C, C++, Swift, SwiftUI, SQL, Typescript, React, Node.js

**Technical:** Full-stack development, Data structures, Algorithms, OOP, Database design, Cloud services, Docker, Git

**Interests:** Formula 1, Basketball, Tennis, Soccer, Chess, Weightlifting, Rock climbing, Music mixing, Cooking