Andy Vu

308-224-7967 | andyvu2026@u.northwestern.edu | LinkedIn | andy-vu.com | GitHub

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 – present**
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 sponsorhips 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 for 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*

Hire Me Please | *Website* | *Source Code*   **React** | **Python** | **Firebase** | **GCP**
- Developed a *React* web app to display up to date SWE internship applications and enable users to track their application statuses
- Built a *Python* program to web scrape and process data for *1000+* internship applications, automating the program with *GCP*

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, NBA, Tennis, Soccer, Chess, Weightlifting, Rock climbing, Music mixing, Cooking