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

RELEVANT EXPERIENCE

SomethingSold, Evanston, IL   **June 2024 – present**
Software Engineer
- Led the backend development of an e-commerce platform for college students to efficiently buy and sell furniture
- Utilized *AWS* and *Node.js* to handle user authentication, data storage, HTTP requests, and other backend services

Northwestern University, Evanston, IL   **September 2023 – June 2024**
CS Peer Mentor
- Conducted office hours for Fundamentals of Programming in *C/C++* to provide personalized assistance, guiding *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
- Programmed and launched the Dillo Day App using *React Native*, fostering event engagement among *10000+* attendees
- Collaborated with the promotions and corporate committees to design a thematic UI that enhances sponsorship involvement

Infosys, Bangalore, India   **June 2023 – August 2023**
Software Engineer Intern
- Coordinated the backend development of a visitor management system used by *20000+* company employees
- Utilized *Java Spring Boot* and *PostgreSQL* to develop an API service with Controller, Service, and Repository layers
- Leveraged *KeyCloak*, *OAuth 2.0*, and *Docker* for user authentication, authorization, and management
- Programmed, tested, and debugged *30+ REST API* endpoints, creating detailed documentation for future development
- Collaborated with a front-end intern and 2 mentors to coordinate the project through the software development cycle

TECHNICAL PROJECTS

Quick Mental Math App | see on App Store   **SwiftUI | Java Spring Boot | AWS | PostgreSQL**
- Launched an iOS app with *3000+* downloads on the App Store that helps students efficiently learn mental math
- Developed a secure *RESTful 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   **SwiftUI | Node.js | Firebase**
- Designed and implemented a personalized, generative AI food allergen assistant powered by Google's Gemini AI
- Utilized SwiftUI for the frontend, Node.js to handle cloud functions, and Firebase for user authentication and data storage

World Relief Data Entry System   **Next.js | React | Firebase**
- Overhauled a data entry system for the World Relief nonprofit organization, increasing efficiency by *35%*

Accountive App | see on App Store   **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 business logic

SKILLS AND INTERESTS

Programming languages: Python, Java, Javascript, HTML, CSS, C, C++, Swift, SwiftUI, SQL, Typescript
Frameworks / Tools: React, Next.js, Spring, Flask, Node.js, PostgreSQL, Git, NoSQL, AWS, Firebase, Docker, Unix, XCode
Technical: Full-stack development (front-end, back-end, APIs), Data structures, Algorithms, OOP, Database design
Interests: Formula 1, Tennis, Basketball, Weightlifting, Rock climbing, Music mixing, Chess, Billiards, Soccer