ANDY VU

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EDUCATION

Northwestern University, Evanston, IL   **June 2025**
Bachelor of Science, Major in Computer Science, Minor in Data Science

- **Relevant Coursework:** Fundamentals of Programming in C/C++, Honors Engineering Analysis, Data Structures and Algorithms, Intro to Computer Networking, Discrete Math, Multivariable Calculus, Intro to Computer Systems

RELEVANT EXPERIENCE

Northwestern University, Evanston, IL   **September 2023 – present**
Peer Mentor in CS 211

- Held office hours for Fundamental of Programming in *C/C++* to offer individualized help to students that are not understanding course content or struggling to complete weekly course projects and homework assignments
- Advised students on concepts such as abstraction, pointers, debugging memory errors, *OOP*, and data structures usage

Infosys, Bangalore, India   **June 2023 – August 2023**
Multinational company providing informational technology and outsourcing services
Backend Software Engineering Intern

- Designed and implemented a backend service with a Controller, Service, and Repository layer using *Java Spring Boot* and *PostgreSQL* for a more streamlined internal visitor management system used by all company employees
- Leveraged KeyCloak, OAuth 2.0, and a *Docker* container for user authentication, authorization, and management
- Programmed, tested, and debugged *30+ REST API* endpoints and created detailed documentation for future development
- Collaborated with a front-end intern and 2 senior software engineer mentors to brainstorm ideas about user flows and implementation, design database schemas, and coordinate the project through the software development cycle
- Actively sought out feedback and opportunities to improve through code reviews and weekly meetings with my mentors

TECHNICAL PROJECTS

World Relief Data Entry System   **January 2024 - present**

- Overhauled a data entry system for the World Relief nonprofit organization, enhancing efficiency in storing job information and in matching refugees with jobs that maximize their employment potential and meet their requirements
- Designed and implemented a user-friendly website for data entry and information querying using *Next.js, HTML,* and *CSS*
- Integrated *Firebase Auth* for user authentication and a *Firestore NoSQL* database to store and manage job data

Accountive App ([see on App Store](#))   **September 2023 – January 2024**

- Launched an iOS app that helps users form better habits by notifying their friends when a daily task is completed
- Developed a user-friendly, dynamic, and visually appealing user interface with *Swift, SwiftUI,* and *XCode*
- Leveraged *Firebase Cloud Messaging* to send push notifications to users, *Cloud Functions* to handle HTTP requests and repeating tasks, and the *Firebase iOS SDK* for user authentication and reading/writing to a Firestore database

Quick Mental Math App ([see on App Store](#))   **April 2023 – May 2023**

- Published an iOS app using Swift and XCode with *3000+* downloads on the App Store that helps students learn mental math
- Designed an intuitive and interactive UI that appeals to younger students to create a fun and engaging learning environment

Interactive Poker Simulator   **September 2022 – November 2022**

- Programmed a fully functional poker program in *Python* that allows the user to play against the computer using the terminal
- Implemented a decision-making algorithm for the computer based on the strength of its hand and the user's actions

SKILLS AND INTERESTS

Programming languages: Python, Java, JavaScript, React, Next.js, HTML, CSS, C, C++, Swift, SwiftUI, PostgreSQL, Git
Technical: Full-stack development (front-end, back-end, APIs), Firebase, AWS, Docker, Data structures, Algorithms, OOP, Unix
Interests: Formula 1, Tennis, Basketball, Weight lifting, Rock climbing, Music mixing, Chess, Billiards