

# Andy Vu

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## Education

Northwestern University, Evanston, IL

June 2026

Bachelor of Science, Major in Computer Science

- **Relevant Coursework:** Parallel Computing, Intro to AI, Data Structures and Algorithms, Intro to Computer Networking, Scalable Software Architectures, Design and Analysis of Algorithms, Operating Systems, Agile Development

## Work Experience

Robinhood, Menlo Park, CA

Jan 2025 – present

Incoming Software Engineer Intern

Polo, Evanston, IL

June 2024 – present

Co-founder, CTO

- Led the end-to-end development of a campus-only marketplace using *Swift* and *Firebase*, managing a 3-person development team
- Scaled the platform to reliably support 200+ active users, 150+ live listings, and over \$500 in peer-to-peer transactions
- Collaborated with cross-functional founders to align product development with user needs and usage metrics

Northwestern University, Evanston, IL

September 2023 – present

CS Undergraduate TA, Fundamentals of Programming in C/C++

- Provided personalized support for 100+ students through office hours, project reviews, and debugging assistance
- Refined course materials to ensure clarity in concepts like memory management, pointers, and recursion for new programmers

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

- Designed and deployed a secure backend service for a visitor management system using *Java Spring Boot*, *PostgreSQL*, *KeyCloak* IAM, and *Docker*, 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

LeetCodePatterns.ai | Website | Source Code

React | Typescript | Firebase

- Built a web app that trains pattern recognition for LeetCode-style algorithm problems, helping 100+ active users
- Integrated Gemini API to generate AI-powered questions and explanations, enhancing problem variety and learning depth

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 4000+ 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 EC2*

Hire Me Please | Website | Source Code

React | Python | Firebase | GCP

- Developed a *React* web app to display recent 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*

## 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