

Vinhan Bui

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EDUCATION

Cornell University · College of Engineering

Ithaca, NY

Bachelor of Science in Information Science, Systems, and Technology

Aug. 2021 – Exp. 2025

- Relevant Coursework: OOP and Data Structures, Functional Programming, Intermediate Web Design and Programming, Intro to Backend Development, Intro to Computing Using Python, Discrete Structures, Linear Algebra

EXPERIENCE

Software Engineer Intern

May 2023 – Present

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New York, NY

- Implemented messaging features, matching algorithms to populate user feed, and other backend functionality for MVP launch
- Used NodeJS and Python to connect with Firebase SDKs and Google APIs to write Cloud Functions
- Conducted unit testing with Jest and Firebase Emulator to manage data in Firebase Realtime Database

iOS Engineer

Feb. 2023 – Present

Cornell AppDev

Ithaca, NY

- Developed iOS applications for the Cornell community with a team of designers and developers
- Implemented the UI using UIKit and SwiftUI frameworks and backend functionality with GraphQL and the Apollo Client framework
- Contributed to 20+ PR reviews and taught a 2-credit Intro to iOS Development course with over 100 students
- Increased the user base of Volume, an award-winning mobile app that aims to amplify student voices, by 1500% in a single semester

PROJECTS

iOS Course Grader | *React, Vite, MaterialUI*

July. 2023 – Aug. 2023

- Deployed a web app that simplifies grading for staff members in Cornell's Intro to iOS course
- Utilized Figma components and auto-layout to design wireframe iterations following a grid system
- Implemented the user interface using Material UI v5 components

Grabbit | *SwiftUI, NodeJS, Express, Firebase*

June. 2023 – July. 2023

- Published an iOS app with over 100 users that notifies Cornell students for open seats in a course section
- Followed MVVM design architecture using SwiftUI to implement the user interface
- Integrated a REST API using Express and Firebase Cloud Functions to fetch data from Cloud Firestore

Savvy | *SwiftUI, SQLAlchemy, Flask, Docker, Firebase*

Apr. 2023 – May 2023

- Created an iOS app that bridges the gap between students and available jobs on campus
- Synchronized frontend work with product designers using SwiftUI as the primary framework
- Reviewed and provided feedback to multiple pull requests requested by backend developers

Scribbly | *UIKit, NodeJS, Firebase*

Dec. 2022 – Feb. 2023

- Developed a full-stack iOS app aimed to make improving one's art skills a social and playful experience
- Implemented the UI with UIKit and stored backend data with Firebase Realtime Database
- Integrated Firebase Cloud Functions using NodeJS to automate database changes and push notifications

TECHNICAL SKILLS

Languages: Swift, JavaScript, Python, Java, HTML/CSS, SQL, GraphQL, OCaml

Frameworks: UIKit, SwiftUI, React, Tailwind, Material UI, NodeJS, Flask, Express

Technologies: Firebase, Git, Google Cloud Platform, Docker, MongoDB

Tools: Xcode, VS Code, IntelliJ, Eclipse, Figma

INTERESTS

Teaching · Blogging · Vlogging · Weightlifting · Streaming · Travel · Basketball · Tennis