

Vui Nguyen (“voeey nwen”)

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sunfishempire.com | Greater Denver area, CO

PROFILE

Senior Software Engineer with 15+ years experience delivering software across multiple technology stacks including: mobile, web, full-stack, enterprise, and embedded systems/Internet of Things.

Launched multiple apps to the iTunes App Store, both professional and personal, built using Swift, Objective-C, and Titanium (a cross platform framework). [Leads and mentors developers](#) at work and organizations for under-represented groups in tech. [Women Who Code Lead](#), Mobile Track. [Technical speaker](#). [Women Who Code 2023 List of 100 Technologists to Watch](#).

MOBILE EXPERIENCE

Atomic Robot, Senior iOS Consultant

March-Nov 2022

- Lead developer on an iOS app for an IoT device (client: Proctor and Gamble)
- Fixed bugs and developed new features using Swift
- Integrated SwiftUI into legacy UIKit codebase
- Implemented SwiftUI design package for project custom fonts and colors, as a local Swift Package
- Managed and released TestFlight builds to beta users
- Gave [talks](#) on [hybrid UI \(SwiftUI and UIKit\) app development](#). Resulted in Atomic Robot team members, on other client projects, integrating SwiftUI into their clients' legacy UIKit projects

Jack Henry & Associates, Senior iOS Mobile Engineer

2020-March 2022

- Supported development of the [Banno](#) platform, a white label banking app, for over 300 US community banks and credit unions. See contribution count: <https://github.com/VuiAtBanno>
- Successfully led the delivery of multiple projects, integrating new features and resolving bugs on a large codebase with 1+ million lines of code, 14+ unit tests, and with over 5 million active users, using Swift and Objective-C
- Worked closely with designers, product owner, and project manager, and collaborated with Android and front-end web teams to ensure feature parity, and with services teams to integrate data
- As iOS lead, trained team members on adopting better practices such as: feature flags, Swift class extensions to convert Objective-C code to Swift, and the Proxyman networking tool. Resulted in continued modernization of code base, and release of stable code while meeting project deadlines
- Wrote and maintained unit tests
- Trained and onboarded new engineers

SimplyE / Minitex, iOS Mobile Engineer

2017-2019

- Supported development of SimplyE, an ebook reader app, used by patrons from over a hundred public libraries across the United States, through the University of Minnesota Minitex organization
- Fixed bugs and developed new features using Swift and Objective-C
- Major features implemented:
 - PDF book rendering, including last page read, bookmarks, & annotations. Implemented as a Carthage module, wrapped around 3rd party library, PSPDFKit. PDF format is new to SimplyE, which was formerly an EPUB-only app
 - push notifications when patron's book reservations become available
 - bookmarks for the EPUB book format in SimplyE
- Performed test driven development (TDD) and ensured code correctness using XCTest, Xcode's automated UI and unit testing framework
- Open source code repository: <https://github.com/NYPL-Simplified/Simplified-iOS>

Sunfish Empire LLC / infoGuide Apps, Freelance Software Developer

2010 – 2016

- Built cross-platform mobile apps (Android and iOS) for clients using Titanium
- Evangelized & taught Titanium as a Titan (Titanium evangelist), giving talks on Titanium at local meetups and running my own technical meetup
- Developed and released the "Classic GTO Guide" and the "Early Mustang Guide", field guide apps to classic Pontiac GTOs and early Ford Mustangs, to iTunes & Android stores

- Apps' features included: camera, in-app data persistence, and integrating cloud/server data
- Screenshots of former app store pages: <https://sunfishempire.wordpress.com/portfolio/>
- Demo video: <http://bit.ly/infoGuideDemo>

PRIOR EXPERIENCE

Lockheed Martin / Raytheon, Software Engineer

- Successfully developed and delivered software for multiple classified projects in the C++ and Java programming languages
- Built desktop, enterprise, and web applications
- Built a strong foundation for long-term technology career by applying advanced programming concepts, best practices, and software architecture to projects

INDEPENDENTLY DEVELOPED APPS AND PROJECTS

SwiftUIDesignList

- A SwiftUI design library for custom fonts and colors
- Source code: <https://github.com/vuinguyen/SwiftUIDesignList>

TipperSwiftUI, TipperUIKit

- Tip calculators built in SwiftUI and UIKit, respectively, to demonstrate hybrid UI app development
- Talk on projects given at [360iDev in 2022](#), [video](#), [slides](#)
- Source code: <https://github.com/vuinguyen/TipperSwiftUI>, <https://github.com/vuinguyen/TipperUIKit>

SearchIsOver

- SwiftUI project displays ice cream flavors, using custom filters to narrow down results
- Source code: <https://github.com/vuinguyen/SearchIsOver>
- Talk on project given at DevCommunity Summit, [video](#)

FishingDaze

- Capstone project for [Udacity iOS Nanodegree](#), Fishing Daze, is an app to document fishing trips. Has multiple screens, integrates location and weather 3rd party APIs, camera, custom photo album Views, and Core Data persistence.
- iTunes App Store: <http://bit.ly/FishingDaze>
- Source code: <https://github.com/vuinguyen/FishingDaze>

SKILLS SUMMARY

Software Engineering: Java, C/C++, SQLite, SQL, JSON, REST, embedded programming, Agile methodologies, TDD, Object-Oriented Design

Mobile: SwiftUI, UIKit, Swift, Objective-C, Xcode, iOS mobile development, iOS design patterns (MVC, MVVM), Swift Packages, CocoaPods and Carthage framework integration, XCTest unit tests, Core Data, iOS memory management, multi-threading

Web: JavaScript, NodeJS, ExpressJS, jQuery, HTML/CSS, Socket.IO, PHP

Soft Skills: see projects through to completion, mentor/teach/lead team members, quickly learn new technologies, technical written and verbal communication, thrives in collaborative, team based environment

EDUCATION / CERTIFICATIONS / HONORS

- M.S. Computer Science, University of Denver
- B.S. Computer Science, Colorado School of Mines
- [Udacity iOS Nanodegree program](#)
- Certified Java Programmer
- Women Who Code, Lead: [Mobile Track](#)
- [Intel Software Innovator](#)