

# Timothy Mosby

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## Software Engineer

Customer-focused **senior software engineer** specializing in mobile app development with **React Native, Swift, and Kotlin**. Proven success delivering high-impact apps, including Getty's Contributor app (1M+ downloads, 4.7+ ratings). Experienced in end-to-end feature ownership, technical leadership, and cross-platform deployment. Expanding skills into **AR/VR** with gesture-based interaction design.

## WORK EXPERIENCE

### Independent • Seattle • 02/2025 – Present Software Engineer

See how past enterprise work and patent connects to current XR prototypes: [timmytimmytimmytime.github.io](https://timmytimmytimmytime.github.io)

- **AirType** – Early spatial keyboard prototype using computer vision for hand tracking, extending gesture-input patent work into immersive interaction models.
- **CountAR** – Unity prototype built with XR Hands on Meta Quest 3, recognizing and counting raised fingers with responsive real-time tracking.
- **FaceTrackAR** – OpenCV demo focused on facial expression capture, driving a dynamic cartoon avatar in real time.

### Getty Images • Seattle • 05/2013 – 01/2025 Sr. Software Engineer, Mobile

- Engineered major features of Contributor by Getty Images mobile app (React Native) achieved **1M+ downloads** across iOS and Android, driving **4x user growth to 200K+** professional photographers while maintaining **4.7+ app store ratings**
- Developed prototype iOS application that generated model release forms using Swift and SwiftUI, leveraging live previews to rapidly iterate from design comps to usability-ready app in 4 weeks – replacing manual paper processes with digital PDF generation for professional photographers
- **Led project management** for mobile development team, driving requirements gathering, stakeholder alignment, and project prioritization while maintaining development velocity across multiple applications
- Implemented data-driven mobile feature optimization that consistently hit content growth targets, delivering **200% increase over three years** in mobile photography submissions
- Developed mobile e-commerce apps for GettyImages.com and iStockPhoto.com (iOS Objective-C, Android Java), integrated with core backend **REST APIs** and supporting 14-language localization, while navigating Apple App Store payment policies

## PATENTS

### US8619036B2 – Virtual keyboard based activation and dismissal (2013)

Virtual keyboard that adapts to natural hand placement

- **146+ Citations**
- Cited by Apple, Microsoft, Amazon, Google, Samsung

## SKILLS

### Mobile

- React Native
- SwiftUI
- Jetpack Compose
- Firebase
- Google Cloud

### Languages

- JavaScript
- Swift
- Kotlin
- C++
- C#

### Technologies

- REST APIs
- Xcode
- Android Studio
- Git
- CI/CD

## Sr. Software Engineer, Frontend

- Executed mission-critical, multi-year platform migration from legacy .NET to Rails and modern JavaScript framework converting majority of site pages, achieving **zero critical incidents** and **100% uptime**
- Optimized Continuous Deployment of GettyImages.com .NET platform, achieving **sub-2-hour deployments** and **4x deployment capacity increase**
- Re-architected the server-side route logic to eliminate URL-based injection vulnerabilities and improve site security, achieving **zero major incidents** across all search functionality
- Modernized GettyImages.com's **highest-traffic pages**, rebuilding search and asset detail functionality with Rails and modern JavaScript framework to improve user experience and code maintainability
- Championed mobile-first development, achieving **100% responsive design** across all team deliverables for GettyImages.com using Rails and JavaScript frameworks

## T-Mobile • Bellevue • 10/2012 – 05/2013

### Software Developer

Migrated financial data processing jobs to improve reliability and eliminate security vulnerabilities

## LG Consulting • Redmond • 11/2011 – 05/2012

### Software Developer

Developed datacenter monitoring dashboard, displaying uptime, performance, and incident KPIs

## Microsoft – Surface (PixelSense) • Redmond • 10/2005 – 08/2010

### Software Development Engineer/T

- Invented widely-cited patent "Virtual keyboard based activation and dismissal" for gesture-based interfaces
- Developed mock-data injection testing framework, evolving from IR input recording/playback to procedural multi-touch gesture generation with precise finger positioning and orientation control, enabling automated testcase execution and continuous stress testing
- Led development of real-time multi-touch input frameworks and navigation systems using Microsoft Surface SDK in C#, delivering layout-agnostic UI solutions

## AR/VR

- ARKit
- ARCore
- OpenXR
- XR Hands
- XR Interaction Toolkit

## AWARDS

### Getty Images Hackathon 1st Place • 2017

Photos.com Augmented Reality Experience  
Developed wall art application using ArgonJS months before ARKit and ARCore launched

## EDUCATION

### Certificate: Advanced C++ Programming

University of Washington  
06/2006

Year-long program covering data structures, algorithms, and memory management including early RAIL patterns

### Certificate: Advanced Development ANSI C

University of Washington  
06/2005

Comprehensive program covering programming fundamentals, coding practices, and development principles