

PERSONAL DETAILS



ksurajt@gmail.com



+91-8606557196



https://www.linkedin.com/in/suraj  
kthomas/



https://github.com/Suraj-k-Thoma  
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EDUCATION



B.Tech/B.E. in Computer  
Science

Visveswaraiah Technological  
University (VTU) | 2006 – 2011

CORE COMPETENCIES

Mobile Application Architecture	=====
User Experience Design	=====
Agile Methodologies	=====
Performance Optimization Strategies	=====
Cross-Platform Development	=====
API Design and Integration	=====
Software Development Life Cycle (SDLC)	=====
Team Leadership and Management	=====
Quality Assurance Processes	=====
Technical Documentation Standards	=====

CERTIFICATIONS



iOS Lead Essentials –  
Essential Developer Academy



Certified SAFe® Agile  
Practitioner – Scaled Agile,  
Inc.

SURAJ K THOMAS

Tech Team Lead & Associate Architect | Scalable Product Development |  
Hands-On Contributor | TDD Champion | Leader

12+ years of experience in software development with deep expertise in iOS, delivering scalable, high-performance products used by over 1M+ users. Architected modular systems and performance-oriented APIs to support growth and rapid iteration. Partnered with Product, Design, and Data teams to ship user-focused features using A/B testing, analytics, and feature flags, prioritizing user experience and performance excellence. Last 6 years working as lead engineer, managing the team, hiring, planning, execution, estimates, budget etc. Critical decision making and natural leadership qualities are what I'm proud of.



PROFILE SUMMARY

- Leadership & Team Management:** Directed a talented team of 10+ engineers in the development of innovative mobile and web applications, while actively engaging in coding to ensure adherence to the highest standards of quality and performance.
- Technical Expertise & Development:** Developed advanced skills in iOS frameworks, architectural design patterns, and software development best practices, with a strong emphasis on optimizing user experience and application performance.
- Performance Optimization:** Spearheaded targeted optimizations that led to a 35% improvement in app speed and a 20% reduction in crash rates, significantly enhancing user engagement and satisfaction.
- Process Improvement & Automation:** Implemented Continuous Integration and Continuous Deployment (CI/CD) methodologies, streamlining development workflows and substantially decreasing post-release defects.
- Quality Assurance & Testing:** Championed the adoption of Test-Driven Development (TDD) practices across multiple teams, driving improvements in code quality and increasing developer confidence throughout the software lifecycle.
- Software Architecture Leadership:** Applied expertise in Clean Architecture and MVVM principles to design modular, scalable, and maintainable mobile components that boost overall development efficiency.
- Strategic Architecture & Scalability:** Led efforts to establish robust mobile architecture frameworks ensuring maintainable, scalable codebases adaptable to evolving technology landscapes.
- User Retention & Business Growth:** Directed initiatives that resulted in a 25% increase in user retention by incorporating user feedback-driven enhancements and feature updates, substantially contributing to business objectives.



TECHNICAL SKILLS

<b>Languages</b>	&	Swift (Expert), Objective-C, JavaScript (React), iOS, macOS, Linux, java, kotlin, React Native, Android, React JS
<b>Platforms:</b>		
<b>iOS Frameworks</b>	&	UIKit, SwiftUI, Combine, RxSwift, CoreData, Push Notifications, In-App Purchases, WebRTC, AVFoundation, Background Tasks, Keychain, CoreAnimation
<b>SDKs:</b>		
<b>Architecture Design:</b>	&	Clean Architecture, MVVM, VIPER, Modular Architecture, Modular Monoliths, Dependency Injection, SOLID Principles, TDD, System Design, Scalable App Design, Feature Flags, A/B Testing
<b>Testing &amp; Quality:</b>		Test-Driven Development (TDD), Unit Testing, Snapshot Testing, XCTest, XCUITest, Mocking, Code Coverage, Quality Gates

**Tooling & DevOps:**

Xcode, Instruments, Fast lane, GitHub Actions, Azure DevOps, Cocoa pods, Carthage, Swift Package Manager, Firebase,AWS, Jenkins, Docker ,Google Cloud Platform,

**Collaboration & Leadership:**

Agile, Scrum, SAFe® Agile, Sprint Planning, Estimation, Code Reviews, Mentoring, Hiring, Cross-Team Alignment, Conflict Resolution

**Product & Release:**

App Store Deployment, TestFlight, Localisation, Accessibility, Ownership Mindset, Technical Roadmapping

**Advanced Concepts:**

Swift Concurrency (async/await), SDK Development, Open Source Contributor, REST & GraphQL APIs, Performance Optimisation, React js (Frontend collaboration experience)

**WORK EXPERIENCE****2019 – Jan'25 | Tech Team Lead – iOS | React (Focus Edumatics, India)**

- Directed a cross-functional team of 10+ engineers across mobile and web platforms, managing sprint planning, code quality, performance tracking, and team delivery while contributing individually.
- Enhanced a high-traffic iPad app serving over 1M users — boosted performance by 35%, decreased crash rate by 20%, and integrated SwiftUI-based UX improvements.
- Partnered with Product, QA, and DevOps teams to establish CI/CD pipelines and quality gates, leading to a 30% reduction in post-release bugs.
- Championed the adoption of TDD practices across teams, increasing test coverage and code reliability.
- Guided junior and mid-level developers, supporting their progression toward senior roles through 1:1 coaching, architecture reviews, and structured growth plans.
- Contributed to hiring strategies, candidate assessments, and onboarding processes — expanding the team to fulfill product and business objectives.
- Implemented SAFe® Agile practices to manage dependencies, synchronize sprint goals across teams, and align development with the overall product vision.
- Fostered a culture of knowledge sharing through internal tech talks, peer learning sessions, and open-source contributions.
- Delivered 10% improvement in app startup time by optimizing codebase and resource loading strategies, enhancing user experience and engagement.
- Experienced in cross platform mobile application development using Visual studio code.  
I have worked on both iOS and Android applications . Experienced in leading both apps .
- Hands on experience setting CI/CD pipelines using azure devops and jenkins .
- Familiarity with automation testing using appium / python .
- Led initiative to reduce build and deployment time by 30%, accelerating release cycles and improving time-to-market efficiency.

skills used - TDD , swift, swiftUI , Xcode, INstruments ,swift concurrency , unit testing etc

**PREVIOUS EXPERIENCE**

- Jan'16 – Jan 19 | Senior Software Engineer | People10 Technosoft Private Limited  
Single resource for end to end development of telemedicine app ucareConnect/Certintel  
skills used - webrtc , swift , XCode , GCD etc
- Dec'14 – Jan'16 | iOS Consultant | AAHLAAD SOFTWARE  
worked on banking framework keytalk .  
**KeyTalk** is (the PKI/certificate automation platform) used to stop man in the middle attack on bank servers .  
Clients of keytalk include  
**Banka CREDITAS** (Czech Republic) — uses KeyTalk CKMS for TLS/SSL certificate lifecycle management.  
**Ahli United Bank** (Bahrain/Egypt) — uses KeyTalk CKMS for TLS/SSL automation and S/MIME certificate enrollment/management.  
**DLR Kredit** (Denmark) — manages 150+ TLS/SSL server certs with KeyTalk CKMS.  
skills used - encryption , SDUI ,Xcode , TDD , unit testing etc

- Jun'13 – Jul'14 | iOS Application Developer | Interaxis Networks  
single resource for 2 whitelabelled voip application iconnect plus  
skills used - xcode , webrtc , Voip, frameworks ,wireshark , instruments etc
- Nov'12 – Nov'13 | Software Engineer | Appstute Technologies, Pune

## Responsibilities across the tenure

- Developed high-performance iOS applications featuring real-time audio/video capabilities using WebRTC, VoIP, and OpenSIPS, ensuring minimal latency and optimized communication.
- Designed and implemented scalable, modular, and test-driven banking applications, adhering to encryption protocols and advanced cryptographic standards for secure financial transactions.
- Contributed to the architecture and deployment of iOS applications for Cisco's Infinity Video Platform, focusing on high availability, cross-platform compatibility, and seamless user experiences.
- Advocated for and integrated open-source libraries and reusable components to accelerate development cycles, standardize implementations, and enhance long-term maintainability.
- Collaborated closely with globally distributed engineering teams, product managers, and QA analysts to coordinate feature delivery, reduce time-to-market, and minimize production-level issues.



## HIGHLIGHTS

- **Team Growth & Scaling:** Successfully expanded engineering teams from 5 to 15+ members across iOS, Android, and front-end verticals, ensuring balanced skill distribution and delivery efficiency.
- **Secure Product Delivery:** Directed the development of secure, compliant digital products in regulated environments, adhering to industry standards and ensuring data protection and system integrity.
- **Strategic Feature Execution:** Consistently delivered high-impact features aligned with key business KPIs, driving measurable growth in user engagement, retention, and revenue.
- **Technical Mentorship:** Designed structured mentorship and career development frameworks, guiding mid-level developers into senior roles through targeted coaching and hands-on architectural exposure.
- **Process Excellence & Automation:** Instituted CI/CD pipelines, robust code review practices, and automated quality gates to improve release velocity and reduce post-deployment defects.
- **Agile Transformation:** Spearheaded scaled agile practices using SAFe® methodologies, aligning cross-functional squads with product vision and synchronized sprint goals.



## PROJECTS

### • FevTutor

[FevTutor App](#) – EdTech iPad App (2019- 2025)

Served over **1M+ users** with **25K+ daily sessions**. Contributed to performance enhancements and feature expansion in a large-scale education platform.

<https://info.fevtutor.com/schedule-a-demo>

### • Swyx Mobile(2016 -2019)

[Swyx iOS App](#) – Enterprise VoIP Solution

Developed and optimized key modules for a business-focused **VoIP communication app**, ensuring real-time reliability and smooth call handling.

<https://apps.apple.com/in/app/swyx-mobile-2020/id1498769204>

### • Keytalk Client(2014-2016)

[Keytalk Client \(macOS\)](#) – Banking Security Framework

Developed core iOS components for a secure **banking framework**, integrating encryption protocols and secure credential storage.

<https://apps.apple.com/in/app/keytalk-client/id1446009972?mt=12>

### • iConnectPlus(2013-2014)

[iConnectPlus App](#) – Enterprise Communication Suite

Built scalable features for a multi-platform communication app supporting audio/video and real-time collaboration.

### • Certintell(2016 -2019)

[Certintell](#) – Telemedicine iOS App

Implemented secure video consultation features and HIPAA-compliant workflows for remote healthcare delivery.