# AHMAD SHABIBUL HOSSAIN

TECH LEAD & STAFF LEVEL MOBILE ENGINEER | NATIVE IOS & CROSS-PLATFORM SYSTEMS

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## PROFESSIONAL SUMMARY

Staff-level Mobile Engineer & Tech Lead with 12+ years driving architecture, CI/CD, and cross-platform system design for complex mobile applications. Expertise in iOS, React Native, and backend layers, with a proven track record of building scalable solutions that improve delivery speed, stabilize pipelines, and enhance test coverage. Actively exploring and applying AI engineering, including LLM applications, RAG pipelines, and MCP, to optimize development workflows and level up product capabilities.

## KEY TECHNOLOGIES

iOS (Swift/SwiftUI), React Native, Kotlin, Go, Node.js, GraphQL, System Design, Architecture Decision Records (ADRs), LLMs, RAG, MCP

## WORK EXPERIENCE

### VTS Canada Inc, Toronto, ON

Tech Lead | Senior Software Engineer

JULY 2021 – PRESENT

*New York-based proptech platform with 500-700 employees, serving commercial real estate operators. 55% of North American commercial buildings use VTS. 300-500k MAU.*

- Led native iOS and React Native development across three squads (Lease, Hardware, Access), each with 10-11 members including PMs, QAs, designers, and EMs. Drove strategy for mobile access solutions, managing complexities across hundreds of white-label instances with unique configurations and branding.
- Architected and led delivery of a mobile-facing system for third-party partner onboarding. Used a decision-tree approach to assess issues, create technical plans, and author ADRs (Architecture Decision Record) to secure buy-in for the new system. This initiative reduced integration time for new partners from 6+ months to 4-6 weeks, directly impacting go-to-market speed and FY2024-25 goals.
- Led a critical refactor of an existing complex cross-platform workflow by presenting multiple solutions with pros/cons in an ADR to broader engineering org, securing approval. This refactoring project completed within 8 weeks, stabilizing a core business function.
- Resolved deep technical and logistical issues within complex mobile access systems, including spaghetti code, inconsistent logging, sneaky crashes, and memory management issues across React Native, native bridge layers, and closed-source SDKs. This improved debugging, unblocked roadmap-critical features, and enhanced release stability.
- Designed, built, and deployed a tablet-based React Native app from scratch for kiosk hardware, integrating Go backend services, Swift modules, and MDM tooling. This involved significant R&D, authoring ADRs, and cross-functional collaboration with hardware distribution, IT, and CX teams.
- Improved crash-free rate to 99.7% and increased automated test coverage from ~45% to over 80%. Introduced test strategies that stabilized mobile and backend systems, reduced regressions, and and increased confidence in releases.
- Mentored engineers across squads, fostering their growth and enabling more independent contributions, such as leading feature initiatives and authoring ADRs. Contributed to hiring processes and authored onboarding documentation, sequence diagrams, and technical decision trees, which significantly scaled engineering knowledge transfer and improved system clarity.
- Migrated key responsive web workflows to native mobile, significantly improving usability and enabling platform alignment across web and mobile.
- Led SDK integration efforts with third-party vendors, coordinating implementation across teams and resolving technical issues to enable faster onboarding and smoother delivery.

**Playlog Inc, Toronto, ON**
Senior iOS Developer

JULY 2020 - JULY 2021

*Toronto-based startup focused on social media content sharing application (11-50 employees)*

• Defined MVP scope and collaborated with product and design to deliver the first App Store release of the iOS app for an early-stage consumer startup
• Built a Swift-based architecture with clean module boundaries, reusable UI components, and CI/CD pipelines
• Introduced localization, dependency injection, and improved testability to support ongoing iteration, crash stability, and delivery velocity

**500px , Toronto, ON**
Tech Lead | Senior iOS Developer

MAY 2019 - JULY 2020

*Toronto-based global photo-sharing platform with millions of users and a large content catalog (11-50 employees)*

• Served as iOS Tech Lead and led Swift migration from Objective-C, introducing SPM and modularizing components to improve testability and maintainability
• Partnered with product, backend, and design to align roadmap priorities and deliver user-facing features
• Mentored junior engineers and contributed to architecture cleanup and test strategy
• Managed App Store release cycles including Fastlane CI automation, TestFlight builds, metadata updates, and resolving review issues to ensure smooth delivery

**ZS Solutions Ltd / Appdragon Ltd, Dhaka, Bangladesh**
Senior Software Engineer

MAR 2016 - FEB 2019

*Dhaka-based product and consulting firm focused on healthcare software, part of SmartIdeas Group*

• Led iOS development for SmartMed, a BLE-integrated healthcare platform - architected the iOS app using Objective-C and Swift and partnered with DevOps on CI/CD automation
• Built Jenkins + Fastlane pipelines to support App Store delivery and release stability - introduced testing and documentation practices for long-term maintainability
• Mentored junior engineers, participated in agile planning, and helped shape engineering standards across the iOS team

**Algonyx, Grameen Solutions, Jijoty Inc, Dhaka, Bangladesh**
Software Engineer

DEC 2011 - FEB 2016

• Held iOS engineering roles across early-stage product teams and client projects – shipped native apps, contributed to product design, and collaborated closely with backend teams.
• Gained hands-on experience in Objective-C, REST APIs, and Agile delivery across startup and agency environments.

#### PERSONAL PROJECTS & PUBLICATIONS
Technical Blog Author | codewithshabib.com

MAY 2013 - PRESENT

Wrote in-depth articles on mobile architecture, testability, and applied AI, including:
  • Understanding LLMs: Context Windows and Token Limits [link]
  • Architecting for Testability in Swift [link]
  • Designing for Ambiguity: From Chaos to Clarity [link]
  • Contextual RAG Search for Developer Docs [link]
  • Silent Assumptions in Mobile Systems [link]

# EDUCATION

**B.Sc. in Computer Science and Engineering**
Shahjalal University of Science and Technology