

# NAZMUL ISLAM

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## PROFESSIONAL SUMMARY

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iOS Software Engineer with 7+ years of experience building and shipping mobile applications in Swift, SwiftUI, and Objective-C. Strong foundation in data structures and algorithms (competitive programming, coursework). Proven track record collaborating cross-functionally to design, build, and deploy features; improving software components and architecture; and identifying, triaging, and resolving production issues. Experience in user onboarding, A/B testing, and ensuring user trust in consumer apps.

## TECHNICAL SKILLS

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**Languages:** Swift, Kotlin, Objective-C, Python, C/C++, Go, SQL

**Frameworks:** SwiftUI, UIKit, Combine, CoreData, Ktor

**Tools:** Git, Xcode, IntelliJ IDEA, Tuist, Jira, Firebase, Grafana

**Networking & APIs:** REST APIs, GraphQL, WebSockets

**Testing:** XCTest, Unit Test, UI Test, Snapshot Test

## PROFESSIONAL EXPERIENCE

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**Senior Software Engineer (iOS)**

**Agoda, Thailand**

**Dec 2022 – Present**

*Agoda iOS App* - A globally recognized travel booking platform that enables users to find and reserve hotels, flights, and vacation rentals at competitive prices.

- Delivered multiple features end-to-end using SwiftUI and SDUI (Server Driven UI), including flights carousel, activity gallery, Continue Planning Trip (session recovery) enhancements, and Grab (ride-sharing) integration with coupon codes and deep linking, A/B tested resulting in 1200+ incremental bookings per day in total.
- Led iOS architecture refactoring for recommendation/cross-sell module, writing RFC and establishing simplified architecture patterns, improving team velocity and maintainability.
- Contributed to App Refresh project, migrating Search, Search Results, and Sort Filter pages from UIKit to SwiftUI design system, modernizing UI components.
- Owned cross-system integration, coordinating with database team to create optimized stored procedures for experiment configuration retrieval, enabling efficient Backend for Frontend (BFF) integration.
- Identified, triaged, and resolved critical production issues including navigation bugs, search results issues, and data discrepancies, reducing crash rate.
- Migrated session recovery features from UserDefaults to SwiftData-based caching in app's sandbox, addressing size and performance limitations for large data storage.
- Optimized app performance by refactoring data model mappings from main thread to background thread, updating network layer's generic mapper and optimizing search results and recommendation modules, improving UI responsiveness.
- Developed internal bug reporting feature enabling employees to submit feedback with screenshots, streamlining issue reporting.
- Investigated low mutation testing scores, established systematic process to identify test coverage gaps, and wrote additional unit tests to improve code quality in the BFF codebase.
- Conducted knowledge-sharing sessions on SwiftData and iOS best practices, mentoring team members and facilitating technical decision-making through code reviews.
- Collaborated cross-functionally with product, design, backend, and analytics teams to coordinate feature delivery across multiple repositories and systems.

*Tech Stack:* - Swift, SwiftUI, Objective-C, UIKit, SDUI, Combine, Kotlin, Ktor, CoreData, SwiftData, REST API, GraphQL, XCTest, SQL

**Software Engineer (iOS, Remote)      tawk.to, Inc, USA      Dec 2021 – Nov 2022**

*Tawk.to iOS App* - A real-time messaging and customer engagement platform that allows businesses to monitor and communicate with website visitors through live chat and CRM solutions.

- Architected and implemented new features using SwiftUI and Combine, enhancing user engagement and retention metrics.
- Collaborated with cross-functional teams to design and deploy product features that improved user onboarding experience.
- Reengineered core app components to improve responsiveness and load times, resulting in better user experience.
- Worked with other engineers to improve software components and architecture, ensuring scalability and maintainability.
- Enforced coding standards and conducted in-depth code reviews to optimize code quality and team productivity.

*Tech Stack:* - Swift, SwiftUI, Objective-C, UIKit, Combine, Core-Data, REST API, WebSocket, XCTest

**Software Engineer (iOS)      Tiger IT, Bangladesh      Jun 2020 – Jul 2021**

*CommChat iOS App* - A secure, end-to-end encrypted messaging application offering chat, screen sharing, and backup/restore functionalities for seamless communication.

- Engineered core chat functionalities, including end-to-end encryption, backup/restore, and screen-sharing, ensuring user trust and data security.
- Developed a robust low-level networking layer to facilitate seamless backend communication and improve app reliability.
- Collaborated across teams to refine app architecture and define API specifications, enabling scalable feature development.
- Mentored junior developers, fostering skill growth and best coding practices in iOS development.
- Evaluated and interviewed candidates, assessing expertise in data structures, algorithms, and iOS development.

*Tech Stack:* - Swift, UIKit, ReplayKit, MessageKit, CouchbaseLiteSwift, REST API, MQTT, End-to-end Encryption, XCTest

**Software Engineer (iOS)      Share Trip, Bangladesh      Jun 2019 – Jun 2020**

*ShareTrip iOS App* - A travel booking platform that helps users explore, compare, and book flights, hotels, and holiday packages conveniently.

- Built and integrated holiday and vehicle booking features, expanding the app's service offerings.
- Restructured and maintained flight and hotel booking systems for enhanced efficiency.
- Partnered with designers to craft an intuitive and visually appealing iOS experience.
- Guided new team members in navigating the codebase and implementing new features.
- Assisted in sprint planning, release management, and team coordination.

*Tech Stack:* - Swift, UIKit, REST API

**Software Engineer (iOS)      Samsung Research, Bangladesh      Feb 2018 – Apr 2019**

*SmartThings iOS App* - A smart home automation platform that allows users to connect, monitor, and control Samsung and third-party smart devices from a single interface.

- Designed modular UI components using UIKit AutoLayout for reusable and consistent interfaces.
- Restructured the legacy codebase to improve testability and increase test coverage by 20%.
- Led knowledge-sharing sessions to help developers prepare for Samsung's Software Competency Test.

*Tech Stack:* - Swift, UIKit, REST API

**Junior Software Engineer (Dot Net) Brain Station 23, Bangladesh Apr 2017 – Feb 2018**

- Designed and developed REST APIs using the Dot Net framework, improving backend functionality.

- Wrote complex SQL stored procedures to automate profit calculation for an eCommerce platform.
- Diagnosed system issues and implemented feature enhancements in multiple projects.

*Tech Stack:* - C#, Dot Net, SQL Server, REST API

## AWARDS AND ACHIEVEMENTS

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- **Runner-up** among 50+ participants in “Grameenphone Digital Ninja Hackathon, 2021”.
- Achieved **Professional Level** in the Samsung Software Competency Test, 2018.
- Secured **2<sup>nd</sup>** place (Team: CUET\_Black\_Flags) among 30+ teams in the International Islamic University Programming Contest (IIUPC), 2015.
- Ranked **27<sup>th</sup>** (Team: CUET\_Black\_Flags) among 150+ teams in Bangladesh University Programming Contest (QAAIPC), 2014.
- Solved 1000+ competitive programming problems on various online platforms such as LeetCode, InterviewBit, HackerRank, UVA, LightOj, CodeForces, AlgoExpert.

## EDUCATION

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**Bachelor of Science in Computer Science & Engineering**

**May 2012 – Apr 2017**

Chittagong University of Engineering & Technology

Cumulative GPA: 3.57 / 4.0

*Major coursework:* - Data Structures, Algorithms, Operating Systems, Database Management Systems, Software Engineering, Computer Networking