

RUNA ALAM

iOS Engineer

CONTACT

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- 🌐 <https://runaalam.github.io/>

SKILLS

- **Languages:** Swift, Objective-C, Java, Python
- **Frameworks:** SwiftUI, UIKit, MapKit, ARKit, RealityKit, RealityKitContent, Swift Concurrency, Combine, REXSwift, CoreData, Alamofire, XCTest, Mockingbird, Maestro, Firebase, Spring framework, JPA/Hibernate, Django
- **Design Architecture:** MVC, MVVM, MVP, TCA, UberRibs
- **Frontend:** CSS, JavaScript, jQuery, Bootstrap
- **Database:** MySQL, Oracle
- **Tools:** XCode, Reality Composer Pro, Swift package manager, Cocoa Pods, Carthage, Proxyman, Git, Fastlane, Mixpanel, Whimsical, CircleCI

EDUCATION

2014 - 2017

UNIVERSITY OF SYDNEY

- Master of IT, Software Engineering

2000 - 2004

EAST WEST UNIVERSITY,
BANGLADESH

- Bachelor of Computer Science

PROFILE SUMMARY

Experienced iOS Engineer with a strong background in designing and maintaining high-quality apps for the App Store. Proficient in SwiftUI, Swift Concurrency, Combine, and various architectural patterns. Recently trained in VisionOS, developing an AR app with RealityKit, and skilled in enhancing performance through code reviews, refactoring, unit testing, and CI/CD processes. Collaborative and detail-oriented, with experience in cross-functional teamwork.

WORK EXPERIENCE

Independent iOS Developer

FEB 2024 - PRESENT

- Designed and launched an iOS app on the App Store, managing the entire app lifecycle from concept to deployment using SwiftUI, Swift Concurrency, and Combine. (See Project Section)
- Completed VisionOS training successfully.
- Developed a VisionOS app nearing launch, leveraging RealityKit, Reality Composer Pro, RealityKitContent, ARKit, and AudioPlaybackController for a dynamic user experience.
- Stayed current with the latest technology, sharing insights through blogs.

Travel Break

AUG 2023 - JAN 2024

Travelled through New Zealand, Fiji, the USA, and Saudi Arabia.

Deputy iOS Engineer

MAY 2021 - JUL 2023

Deputy is a workforce management software that simplifies employee scheduling, tracks time and attendance, manages tasks and enhances organizational communication.

- Maintained and implemented features using Swift, SwiftUI, UIKit, Swift Concurrency, Combine, and REXSwift to interact with REST services.
- Developed application designs based on MVVM, TCA, Uber Ribs, and Swift Package Manager.
- Collaborated with product managers and designers to map ideas and document requirements using Whimsical and Confluence.
- Improved product quality through code reviews, refactoring, and modernizing the codebase to reduce technical debt.
- Implemented event tracking with Protobuf to generate reports on Mixpanel.
- Responsible for app release on the App Store using CI/CD pipeline and Fastlane.

PROJECTS

- **Times Table Expert:** The Times Table Expert app is an interactive and engaging tool for learning and practising Times Tables.

Tech Stack: SwiftUI, UserDefaults, Combine, Swift Package Manager

App Store Link:

<https://apps.apple.com/us/app/timetableexpert/id6737184247>

- **Pollinators:** Pollinator is an immersive AR app for Apple Vision Pro, bringing the world of pollinators to life in stunning 3D.

Tech Stack: SwiftUI, ARKit, RealityKit, RealityKitContent, Reality Composer Pro, AudioPlaybackController

Demo Link:

<https://runaalam.github.io/projects/pollinators.html>

- **WeatherWise iOS App:** The WeatherWise app offers real-time weather data for multiple cities via the OpenWeather API.

Tech Stack: SwiftUI, URLSession, Cache, UserDefaults, Combine, and XCTest

Source Code:

<https://github.com/runaalam/WeatherWise>

- **MoodFlip :** MoodFlip is a self-help website with a card game application and social media features. This was a MIT course project with three other team members.

Tech Stack: Spring, Hibernate, Bootstrap, jQuery, Google Chart AP

Source Code:

<https://github.com/runaalam/moodflip>

- Managed unit tests and automation testing with XCTest/XCUITest and Maestro and coordinated testing sessions for quality product delivery.
- Supported intern in learning complex codebases, debugging, and adopting new technology and architecture.

Northbridge Secure Pty Ltd iOS Developer

Mar 2019 - Apr 2021

Northbridge Secure provides a remote desktop access enterprise application.

- Maintained and added features in in-house apps using Swift, Cocoa Touch, WebKit, and AVKit.
- Designed applications with MVC, MVP, and MVVM patterns.
- Enhanced product quality through code reviews, refactoring, and unit/automation testing with XCTest/XCUITest.
- Conducted front-end development with Python, Django, and AngularJS.

The University of Sydney Mobile App Developer

Oct 2018 - Feb 2019

Developed mobile-friendly web modules and maintained existing mobile apps using Swift, HTML, CSS, Flask/Python, Bootstrap, jQuery, and MySQL.

Maternity Leave/Higher Education/Training/ Part-Time Job

2009 - 2018

- Took extended maternity leave to care for two children until preschool age.
- Enhanced skills through an MIT degree, iOS courses
- Worked part-time as a Software Developer at the University of Sydney Tech Lab.

Therap (BD) Ltd, Dhaka, Bangladesh Software Engineer

OCT 2005 - DEC 2008

Therap (BD) is a subsidiary of Therap Services, LLC, USA, that provides online application services for MR/DD community care providers.

- Contributed to various phases of the Software Development Life Cycle—requirement analysis, design, implementation, testing, and documentation—using Java, J2EE, and frameworks like Struts, Spring, and Hibernate, JSP.

East West University, Bangladesh Junior Programmer

JAN 2005 - SEP 2005

Developed a customer credit monitoring solution for HSBC Bank and an Information Management System for the Career Counselling Center using ASP.NET, VB.NET, HTML, CSS, JavaScript, MS SQL Server.