

Mohammed Bashem

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🐙 github.com/mbashem 🏠 codeforces.com/profile/bashem 🔗 leetcode.com/u/bashem

📁 Experiences

Samsung R&D Institute Bangladesh

Senior Software Engineer

Jan 2026 – Present | Dhaka, Bangladesh

Software Engineer

Jan 2024 – Dec 2025 | Dhaka, Bangladesh

- Contributed to the **SmartThings iOS (10M+ downloads)**, using Swift, UIKit, SwiftUI, and Combine within an **MVVM-C** architecture.
- Develop the **SmartThings watchOS app** using SwiftUI as the primary owner on the Bangladesh team.
- Contributed to internal state management stores supporting the SmartThings iOS app.
- Improved **maintainability and reusability** by reducing duplicate logic, aligning legacy code with MVVM-C, migrating ReactiveSwift to **Combine**, and transitioning **UIKit** views to **SwiftUI**.
- Achieved **90%+ test coverage** for ViewModels and internal state management stores using XCTest.
- Fixed **10+ memory leaks** with Instruments, reducing memory buildup by **~23%** over repeated use.
- Optimized a **performance-critical function** from **$O(N \times M)$ to $O(N+M)$** , cutting execution time from **~140 ms to <50 ms**; also optimized debug logging, reducing overall execution time from **~2 s to ~50 ms**.
- Built PoCs using WatchKit, HealthKit, WidgetKit, and Core ML to explore new product features.
- Resolved 150+ bugs including critical production issues.
- Received the **Icon Award (Jan–Feb 2025)** for outstanding contributions and **Code Review Award (April–June 2025)**.
- Passed Samsung's SWC Professional Test, a rigorous internal coding assessment.

Algo Clan Inc. 🌐, Junior Software Developer (Part Time)

May 2023 – Dec 2023 | Dhaka, Bangladesh

- Developed a SaaS web app helping Amazon FBA sellers discover products and analyze sales; built the frontend from scratch using **React**.
- Implemented a queue system to use 3rd party APIs efficiently.
- Integrated Stripe payments and developed **WebSocket and REST APIs**.
- Tech Stack: **React**, Redux, Material UI, **Django**, Django Rest Framework, **MongoDB**, **Redis**, **Typescript**, **Python**.

📁 Projects

CFTracker 🌐, React, Redux, TypeScript, Go, Gin, PostgreSQL, Next.js, Docker

2021 – present

- Built a React app for Codeforces practice and progress tracking, used by **thousands of users**, with **40+ GitHub stars**.
- Developed the Go backend using Gin and PostgreSQL and packaged it with Docker.
- Built a separate Next.js data collection service and automated storage of Codeforces API responses using GitHub Actions, reducing repeated API calls.

React Native Chart Library 🌐, TypeScript, React Native, Skia, Reanimated

- Designed and built five interactive chart components with customizable labels, overlays, and tooltips.
- Implemented overscan rendering, gesture-driven panning, custom geometry, and touch selection.

🧠 Skills

Mobile: UIKit, SwiftUI, Combine, XCTest, WatchKit, React native

Backend: Django, Next.js, Gin, PostgreSQL, MongoDB | **Frontend:** React, Redux, HTML, CSS, Material UI, Bootstrap 5

Languages: Swift, Typescript/Javascript, C++, Python, Go | **Tools:** Docker, GitHub Actions

🏆 Competitive Programming Achievements

- Highest ratings: Codeforces **Candidate Master** 🌐, 1953; AtCoder Blue, 1743 🌐; CodeChef 5-star, 2131. 🌐
- Ranked **29th** among 6,500+ teams at ICPC Asia West Continent Final 2023. 🌐
- Ranked **3rd** among 72 teams at CoU-BRACNet IUPC 2023. 🌐
- Ranked 681st among 20,324 initial participants in Meta Hacker Cup 2023 Round 2. 🌐
- Champion among 88 participants in Intra NSU Programming Contest 2023. 🌐

🎓 Education

BSc. CSE, North South University

Jan 2020 – Dec 2023