# Md. Tarikul Islam Uthso

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Dhaka, Bangladesh — Remote / Hybrid Ready

## Professional Summary

Frontend Engineer **(React / Next.js / TypeScript) 2+ years** of professional experience building production-grade web interfaces with React and Next.js. Strong focus on performance, maintainability, and UX polish, with additional expertise in animation **(GSAP) and 3D (Three.js)** when required. Background in enterprise QA at Samsung R&D ensures reliability, edge-case awareness, and clean engineering practices.

## Technical Skills

- **Frontend:** React 18, Next.js (App Router), TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS

- **3D & Motion:** React Three Fiber, drei, Three.js, GSAP (ScrollTrigger, timelines, useGSAP)

- **Backend & Data (Frontend-Oriented):** Supabase, REST APIs

- **Tooling:** Vite, Git, npm, Vercel, VSCode

- **Programming:** JavaScript, TypeScript, Python, C++, C

- **QA / Automation:** Selenium, Appium, Jira

## Key Projects

**MacBook Pro M4 Landing Page — Next.js + React Three Fiber + GSAP** [GitHub] — [Live Demo]

- High-fidelity, Apple-inspired product landing page focused on 3D, motion, and scroll-driven storytelling.

- Built interactive real-time 3D product scenes using React Three Fiber, fully synchronized with React state.

- Implemented GSAP ScrollTrigger for pinning, parallax sequencing, and narrative pacing across sections.

- Designed a state-to-3D pipeline using Zustand to control product color, scale, and screen content dynamically.

- Integrated scroll-synced video textures mapped onto the 3D model using GSAP timeline hooks.

- Optimized performance through reusable video textures, adaptive lighting, and reduced scene complexity on mobile GPUs.

- Focused on maintainability by balancing declarative R3F structure with low-level Three.js control where precision was required.

**Cosmic Coffee Tracker — Next.js + Supabase + React Three Fiber + GSAP** [GitHub] — [Live Demo]

- Built a playful data-driven app where each logged coffee becomes a star in a persistent 3D galaxy.

- Implemented Supabase-backed CRUD operations with synchronized visual and database state.

- Designed deterministic 3D layouts and GSAP-powered interaction effects with strict lifecycle cleanup.

**Mojito Cocktail Landing Page — React + TypeScript + GSAP** [GitHub] — [Live Demo]

- Motion-first landing page emphasizing scroll-based interaction, animation timing, and visual polish.

- Implemented GSAP timelines, ScrollTrigger pinning, parallax effects, and text reveal animations.

- Written fully in TypeScript with careful animation lifecycle management.

**AI Image Captioner — Next.js + FastAPI + BLIP (PyTorch)** [GitHub] — [Live Demo]

- Built a full-stack system generating natural-language image captions using a locally hosted BLIP model.

- Designed a decoupled architecture with Next.js frontend and FastAPI inference backend.

- Focused on reproducibility, clean interfaces, and reliable end-to-end inference.

## Experience Summary

**Software QA Engineer — Samsung R&D Institute**
*Aug 2023 – Present*

- Automated and maintained 80+ Selenium test cases for Android systems.

- Worked closely with developers to identify UI/UX, logic, and edge-case defects.

- QA background reinforces disciplined debugging and reliability-first frontend development.

## Education

**B.Sc. in Computer Science and Engineering** — Shahjalal University of Science and Technology (SUST)
GPA: 3.11

## Certifications & Achievements

- Samsung R&D Institute — Intellect of the Quarter (Q1 2025)

- Samsung R&D Institute — Excellence Award for Innovation (Q1 2024)

- ISTQB Certified Tester (Foundation Level)

## Key Strengths

- Motion-first frontend engineering mindset.

- Strong problem-solving ability (CF + CW + LC).

- High attention to detail from QA background.

- Self-driven, fast learner, and remote-ready.

## Hobbies & Interests

Reading novels and manga, UI experiments, 3D graphics, coding challenges and gym.

## Competitive Programming & Problem Solving

**Codeforces:** Specialist — Rating **1478 (Max)**
854 problems solved
codeforces.com/profile/tarikul_uthso

**Codewars: 3 kyu** — Top **1.98%** globally
306+ kata completed (Highest: JavaScript 3 kyu)
codewars.com/Uthso66

**LeetCode:** 283+ problems solved
leetcode.com/u/user2176YS

- 198 Easy, 80 Medium, 5 Hard

- Contest Rating: 1421

- Strong areas: DP, Backtracking, Math, Hash Tables