# Ratul Hasan Ruhan

Software Engineer & Systems Researcher

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## ABOUT

I'm a software engineer working across mobile, web, desktop, embedded systems, and core computer science domains. I started with Android development and gradually expanded into cross-platform engineering, applied AI/ML, systems programming, and infrastructure work.

I'm especially interested in how software systems are designed, how components interact, and how research ideas translate into reliable, real-world applications. I value clarity, maintainability, and thoughtful engineering over quick fixes.

## WORK EXPERIENCE

### Founder & Full-stack Mobile Architect

Appibrium | Self-employed                                    Oct 2025 - Present, Dhaka, Bangladesh

I design and build complete mobile systems—from frontend UI to backend infrastructure—with deep integration of DevOps and machine learning. At Appibrium, I lead the full product lifecycle, turning ideas into high-performance, scalable apps.

### Software Engineer

Solution Explorer | Full-time (Remote)                       Aug 2025 - Oct 2025, Maryland, United States

Design and develop cross-platform apps for mobile (iOS & Android) and desktop (Windows, macOS, Linux), ensuring performance, usability, and scalability.

### Mobile Application Developer

Sydrix AI | Full-time (Remote)                               May 2025 - Jul 2025, Rajbari, Dhaka, Bangladesh

Contributed to rapid prototyping and feature development for early-stage AI products. Built the Sydrix AI mobile solution.

### Flutter Developer

BdCalling IT Ltd. | Full-tIme (On-Site)                      Apr 2025 - May 2025, Dhaka, Bangladesh

Built and optimized real-time features using Socket.io for live data syncing. Integrated audio/video calling features for both iOS and Android platforms. Worked on production-level mobile apps in a fast-paced corporate environment. Collaborated with cross-functional teams to deliver updates on tight deadlines.

### Mobile Application Developer

Emerge AI | Full-time (Remote)                               Aug 2024 - Mar 2025, Beijing, China

Working remotely with Emerge AI, I develop intuitive, high-quality mobile applications with Flutter, integrating AI-driven solutions to enhance user experiences. Thrilled to contribute to a team focused on innovation and excellence in mobile tech!

### Mobile Application Developer

Infolook | Full-time (Hybrid)                                Jul 2023 - Aug 2024, Dhaka, Bangladesh

Designed and developed cross-platform mobile applications using Flutter and Dart, delivering high-performance solutions with modern UI/UX. Collaborated with a hybrid team to implement features, optimize performance, and ensure smooth client deployment.

### Android Developer

Spotlight Creative | Freelance                               Nov 2019 - Dec 2022

Developed and maintained enterprise-level Android applications using Java and XML.

## PROJECTS

### Ojogor - Bengali Programming Language Interpreter

Ojogor is an interpreter for the Bengali programming language, enabling users to write and execute code in Bengali syntax. Designed for beginners and those new to programming.

### GoruSheba - Smart IoT & AI Farming

Transform your farm with GoruSheba - the leading IoT and AI-powered cattle management platform. Monitor livestock health, track farm operations, and optimize productivity with smart sensors and real-time analytics.

### Junior Cambrian

Educational Games: A collection of interactive games that enhance cognitive skills, problem-solving abilities, and creativity. User-Friendly Interface: Intuitive and child-friendly design, ensuring ease of use for kids.

### Emerge AI – Mental Well-being App

AI Food Scan: Instantly recognizes food items and provides detailed nutritional information. Calory AI: Personalized calorie tracking and management. NFT Pet: Unique digital pets using NFT technology for an engaging user experience.

## EDUCATION

### BSc (Hons) Computing

• University of Greenwich (NCC Pathway) • - London, UK • Jan 2025

### BSc. in Computer Science & Engineering

• Daffodil International University • - Dhaka, Bangladesh • Jan 2024 - Jan 2025

### Higher Secondary Certificate (Science)

• Shariatpur Govt. College • - Shariatpur, Bangladesh • Jan 2021 - Jun 2023

### Secondary School Certificate (Science)

• PTGD Govt. High School • - Shariatpur, Bangladesh • Jan 2016 - Dec 2020

## SKILLS

**Mobile & Multiplatform** | Flutter, Kotlin, .NET MAUI / C#

**Systems, Programming & Applied AI** | Rust, Python, Java / Spring

**Embedded, IoT & Networking** | Embedded Systems, IoT, Networking

**DevOps & Infrastructure** | CI/CD, Deployment, System Configuration

## VOLUNTEER

### Volunteer

Society for the Popularization of Science, Bangladesh                    Apr 2025 - Present, Dhaka, Bangladesh

### Volunteer

Bangladesh Open Source Network (BdOSN)                    Apr 2025 - Present, Dhaka, Bangladesh

Contributing to initiatives that promote open-source culture, digital literacy, and inclusive technology in Bangladesh.

## CERTIFICATES

### 2 in 1! Cisco CCNA 200-301 + Python Network Automation

Udemy

Aug 2025

## AWARDS

### Bangladesh ICT & Innovation Award 2025

Bangladesh ICT & Innovation Network (BIIN) • Oct 2025

Honored to receive the Bangladesh ICT & Innovation Award 2025 for my project Ojogor (অজগর) — the first Bengali programming language.

### Startup World Cup: 2025 | Regional Finalist

Pegasus Tech Venture • Aug 2025

From the first round to the final at 🌐 Startup World Cup: Bangladesh– 2025. Grateful to stand among 4500+ innovative startups.

### 1st Place – Project Showcasing | DIA ICT Fest 2025

Daffodil International University-DIU • Feb 2025

Presenting my project and receiving valuable feedback was an enriching experience. Huge thanks to my mentors, peers, and the organizers for creating such a great platform for learning and innovation.

### 1st Place – Programming Contest | DIA ICT Fest 2025

Daffodil International University-DIU • Feb 2025

It was an intense competition, and I'm grateful for the opportunity to test my skills and problem-solving abilities.

### 2nd Place – Puzzle Hunt | DIA ICT Fest 2025

Daffodil International University-DIU • Feb 2025

It was a fun and challenging experience that pushed my logical thinking and teamwork.

## PUBLICATIONS

### Caller Collision Resolution Protocol (CCRP): Bridging Simultaneous Call Attempts in Real-World Telephony

IEEE Conference • Oct 2025

This paper introduces the Caller Collision Resolution Protocol (CCRP), a novel framework designed to resolve mutual call collisions—a persistent issue in telephony where two parties calling each other simultaneously receive busy signals.

## LANGUAGES

(Native), (Fluent)

## INTERESTS

Computer systems and software architecture

Applied AI / ML in real-world systems

Human-centered and localized computing

Programming languages and developer tooling