MD. JAKARIA MAHMUD

App & Web Developer — Flutter · Next.js · ASP.NET Core

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PROFESSIONAL SUMMARY

App and web developer who builds and ships production software with Flutter, Next.js, TypeScript and ASP.NET Core. Currently a Junior Developer at Mariners Group, building the Sales and Production modules of the company ERP and the Biniyog Club investment app. Three apps live on Google Play, full-stack web projects in ASP.NET Core and Laravel, and hands-on experience with JWT authentication, role-based access, PostgreSQL with Prisma, and self-managed VPS deployments. Co-author of a peer-reviewed AI research paper in Applied AI Letters (Wiley).

TECHNICAL SKILLS

Mobile: Flutter, Dart, Firebase (Auth, FCM), Supabase, Biometric Authentication, Google Play Publishing

Frontend: Next.js, React, TypeScript, JavaScript, Tailwind CSS, Livewire, HTML5, CSS3, Bootstrap

Backend: Node.js, ASP.NET Core MVC (.NET 9), C#, Entity Framework Core, SignalR, Laravel, PHP, RESTful APIs

Database: PostgreSQL (Neon), Prisma ORM, SQL Server, MySQL, MongoDB

Auth & Security: JWT, OAuth (Google, LinkedIn), ASP.NET Core Identity, Role-based Access Control, OTP, Zod

AI APIs: Gemini, OpenAI, Groq

Tools & DevOps: Git, GitHub, VPS (Nginx + PM2), Vercel, Cloudinary

Other: C, C++, Java, OOP, Design Patterns, MVC Architecture

WORK EXPERIENCE

Junior Developer Oct 2026 – Present

Mariners Group Dhaka, Bangladesh

- Building the Sales and Production modules of the company ERP with Next.js, React and TypeScript.
- Designing the PostgreSQL database on Neon with Prisma ORM; securing the APIs with JWT and Zod validation.
- Deploying and running the ERP on a VPS with Nginx and PM2, with Cloudinary for file and image storage.
- Developed and launched Biniyog Club, the company's Flutter investment app, now live on Google Play.

PROJECTS

Biniyog Club — Investment & Portfolio Management App Live on Google Play

Technologies: Flutter, Dart, PostgreSQL, Firebase, Cloudinary, REST API

- Built a cross-platform app for individual and group investing, share purchases and real-time profit tracking.
- Investor dashboards with membership tiers, installment schedules and profit accrual tracking.
- Secured the app with OTP verification, biometric app lock and encrypted cloud sync with PostgreSQL.
- Integrated push notifications with Firebase Cloud Messaging and KYC document uploads via Cloudinary.
- Generated PDF statements and financial reports automatically for investors.

CSS Society — Community & Social Welfare App Live on Google Play

Technologies: Flutter, Dart, Supabase, Gemini AI, Google Maps, Cloudinary

- Digitized member engagement and the daily work of a student social welfare organization.
- Emergency blood donor network with map-based search, nearest-donor filtering and blood requests.
- Added a Gemini-powered AI assistant, a social feed, event registration with payments and a notice viewer.
- Implemented multi-factor authentication, biometric login and role-based admin dashboards.
- Automated event notifications with Supabase Edge Functions.

Rojar Alo — Islamic Lifestyle & Ramadan Companion App Live on Google Play

Technologies: Flutter, Dart, REST API, Device Sensors

- Showed real-time prayer schedules fetched from a prayer times API.
- Built a Qibla compass that uses the phone's orientation sensors.

- Added a digital Zikr and Tasbih counter with tap sound feedback.
- Included offline Ramadan and Islamic guides, custom onboarding and splash animations.

ThesisNest — Thesis & Research Management Platform github.com/jakaria76/ThesisNest

Technologies: ASP.NET Core MVC (.NET 9), C#, SQL Server, Entity Framework Core, SignalR, OpenAI & Groq API

- Runs the full thesis lifecycle: proposal submission, supervisor allocation, review and approval.
- Plagiarism checking on PDF and document files, with detailed originality reports.
- Added real-time chat and virtual consultation rooms with SignalR.
- Integrated AI assistance through OpenAI and Groq, processed in a background message queue.
- Dashboards for students, supervisors and admins; Google & LinkedIn sign-in; OTP password recovery.

Conscious Student Society — Social Welfare Web Portal github.com/jakaria76/CSS

Technologies: ASP.NET Core MVC, C#, ASP.NET Core Identity

- Developed a full-stack portal with modules for notices, events, advisors, committees and public engagement.
- Role-based authorization with ASP.NET Core Identity for Admin, Member and Public users.
- Responsive, mobile-first UI with pagination, an “Our Story” timeline and a video gallery.
- Built admin panels with validated forms to manage every section of the site.

BookStore — E-commerce Book Store Platform github.com/jakaria76/BookStore

Technologies: Laravel 9, Livewire 2, PHP, Tailwind CSS

- Product catalog with category browsing and real-time Livewire search without page reloads.
- Implemented a shopping cart and checkout with persistent cart storage, plus a wishlist for saved products.
- Admin and Customer dashboards (products, categories, orders, profile) protected by middleware.
- Integrated login, registration, email verification and flash notifications.

Navigator — Bus Route & Ticket Discovery App github.com/jakaria76/Navigator

Technologies: Flutter, Dart, Firebase

- Cross-platform app that digitizes bus route information and passenger search with Firebase.
- Two roles: operators publish routes and fares; passengers search buses by source and destination.
- Matching buses appear as interactive cards where users view details and select seats.
- Integrated Firebase Authentication and real-time database services for secure login and live data.

QuickBites — Food Ordering Web App github.com/jakaria76/QuickBites

Technologies: React, Vite, React Router

- Built a responsive food ordering frontend with menu browsing, category-based filtering and food item cards.
- Implemented global cart state with the React Context API for add-to-cart and remove-from-cart.
- Designed a reusable component architecture (Navbar, Header, ExploreMenu, FoodDisplay, Footer).
- Structured client-side routing for the Home, Cart and Place Order pages with React Router.

RESEARCH PUBLICATION

Applied AI Letters (Wiley) · 2026 · e70045 doi.org/10.1002/ail2.70045

“Multi-Model Fruit Quality Assessment With Coarse YOLOv11 Presence Filtering, Vision Transformers and the Segment Anything Model”

Md. Fazlay Rabbi, Al Hasib Mahamud, Md. Redwan Hossen, **Md. Jakaria Mahmud**, Mustofa Ahmed

EDUCATION

B.Sc. in Computer Science & Engineering **2022 – 2026**

Ahsanullah University of Science and Technology (AUST), Dhaka ·

Higher Secondary Certificate (HSC) — Science **2021**

Hamdard Public College, Dhaka · GPA: 5.00 / 5.00

Secondary School Certificate (SSC) — Science **2019**

Shambhudia ML High School, Rajshahi · GPA: 5.00 / 5.00