

ARNAB GHOSH

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PROFILE STATEMENT

Mobile application and enterprise software developer, and Computer Science undergraduate, specializing in Flutter and Dart with a focus on scalable, maintainable app architecture that keeps new features easy to integrate as a product grows. Currently builds mobile applications and **enterprise software for modern trade and distribution operations** for OmniTrade. Uses Supabase for authentication, real-time data, and storage, and native Android via Kotlin platform channels for low-level sensor access. Sole developer of a paid client app published on Google Play; Champion in Prompt Engineering and placed 4th nationally at the GenVote Festival Hackathon.

EDUCATION

BRAC University <i>Bachelor of Science in Computer Science and Engineering, CGPA: 3.28 out of 4.00</i>	Sep 2022 – Sep 2026 (Expected) <i>Dhaka, Bangladesh</i>
Cantonment Public School & College, Saidpur <i>HSC – Higher Secondary Certificate, Science, GPA: 5.00 out of 5.00</i>	Jun 2019 – Dec 2020 <i>Saidpur, Bangladesh</i>
Cantonment Public School & College, Saidpur <i>SSC – Secondary School Certificate, Science, GPA: 5.00 out of 5.00</i>	Jan 2017 – Feb 2018 <i>Saidpur, Bangladesh</i>

SKILL SETS

- **Core Strengths:** Flutter, Dart, Mobile Application Architecture, Enterprise Software, Supabase
- **Domains:** Modern Trade & Distribution Systems, Enterprise Mobile Tools, Marketplace Applications
- **Languages:** Dart, Python (*proficient*); Kotlin, JavaScript, SQL (*working knowledge*)
- **Mobile Development:** Flutter, Dart, State Management, Modular Feature Architecture, Native Android via Kotlin Platform Channels, Device Sensor APIs
- **Backend & Data:** Supabase (PostgreSQL, Auth, Realtime, Storage), REST APIs, MongoDB
- **Web (*working knowledge*):** React, Next.js, TypeScript, Tailwind CSS, Three.js
- **Cloud & Tools:** DigitalOcean, Vercel, Docker, Git, GitHub
- **AI & Prompting:** Prompt Engineering, Claude, ChatGPT, Local LLMs
- **Engineering Practices:** Scalable & Maintainable Architecture, Modular Feature Integration, Real-Time Data Sync, Multi-Sensor Fusion, Object-Oriented Programming
- **Soft Skills:** Problem Solving, Team Collaboration, Communication, Adaptability, Time Management

EXPERIENCE

OmniTrade <i>Contract Mobile Application & Enterprise Software Developer</i>	Jul 2025 – Present <i>Dhaka, Bangladesh</i>
• Build and maintain multiple mobile applications for a leading Bangladeshi distribution company whose operations span 550+ retail outlets and 20+ e-commerce and institutional sales platforms. • Develop enterprise software for modern trade operations, translating distribution, sales, and retail workflows into mobile-first tools used daily by field and office teams. • Architect each app around a scalable, modular structure so new business requirements, integrations, and reporting needs can be absorbed as the company's operations expand. • Also delivered the company's corporate website, omnitrade.com.bd, with Next.js, React, and TypeScript.	
Freelance Developer <i>Self-Employed – Contract Client Work</i>	Dec 2023 – Present <i>Dhaka, Bangladesh</i>
• Built and shipped GoPipit, a two-sided student-jobs marketplace app, to Google Play as sole developer under a paid client engagement — covering architecture, UI, backend integration, and release management.	

- Built **PMS Bangladesh** for People Management Services Ltd, a training, HR solutions, and business consultancy firm — delivering service showcases, team profiles, a client carousel, and a streamlined contact flow with Next.js and React.
- Handled each engagement end to end — requirements gathering with stakeholders, design, implementation, deployment, and post-launch iteration.

PROJECTS

GoPipit — [Play Store](#)

Flutter, Dart, Supabase

- Sole developer of a published two-sided marketplace app connecting students with flexible, on-demand work and businesses with verified temporary staff — delivered end to end as a **paid client engagement**.
- Built dual role-based experiences from a single codebase: students discover and apply to part-time, freelance, and event-based jobs, while employers post roles, review applications, and manage event crews.
- Architected the app around a modular, feature-based structure so new job types and hiring workflows can be added without disturbing existing features as the platform grows.
- Handled the full release pipeline — signing, store listing, and publishing to **Google Play** on the client's behalf.

slApp — [Code](#)

Flutter, Dart, Kotlin, Device Sensors

- Developed a hands-free call control app for motorcycle riders — slapping the back of the phone silences or ends an incoming call without removing gloves or a helmet.
- Engineered **multi-sensor fusion** across the accelerometer, gyroscope, and microphone to distinguish deliberate slaps from road vibration, bridging Flutter to native Android via Kotlin platform channels for background call handling and low-level sensor access.
- Structured the app around a modular, layered architecture that isolates sensor handling, detection logic, and call control, keeping each concern independently testable and easy to extend.

RoutineBuzz — [Live](#) | [Code](#)

Supabase, React, TypeScript, Tailwind CSS, Vite

- Built a university course schedule builder for **BRAC University** students, letting them search the course catalog, assemble conflict-free weekly routines, and export them to their calendars.
- Designed the Supabase backend — schema, authentication, and realtime channels — so routines sync instantly across devices, with shareable links for comparing schedules with friends.

3D Voting Simulator — [Live](#)

Three.js, React, Tailwind CSS

- Built an interactive 3D voting simulation for the **GenVote Festival 2025 Hackathon** by IFES (International Foundation for Electoral Systems) — a navigable Three.js polling environment where players walk through every step of casting a ballot, aimed at building confidence among first-time voters.
- Placed **4th nationally** in the competition as a team; deployed publicly at votingsimulation.com.

ACHIEVEMENTS

- **Champion** — **Prompt Engineering**, International Business Genius Bangladesh Conference, November 9, 2024.
- **2nd Runner-Up** — **Prompt Engineering**, Traction Obhyuday, organized by ROBU (BRAC University Robotics Club), February 28, 2025.
- **4th Place** — **GenVote Festival 2025 Hackathon** by IFES, competing as part of a team on electoral technology and civic engagement solutions for Bangladesh.

INTERESTS

- Designing mobile architectures that stay clean and extensible as an app grows in scope and users.
- Applied AI — prompt engineering and running local LLMs to speed up development workflows.
- Hackathons and competitive problem solving, and shipping side projects that solve real, everyday problems.