

MD. AKIBUL HASAN ARMAN

Software Engineer | Full-Stack | Backend | Machine Learning / Computer Vision

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PROFESSIONAL SUMMARY

Software engineer and Computer Science & Engineering graduate with end-to-end experience across full-stack applications, backend systems, dashboards, machine learning, computer vision, and business operations. Delivered 6+ client-facing web projects and built deployed products using Next.js, React, TypeScript, C#/ASP.NET Core, PostgreSQL/Supabase, PHP/MySQL, Python/Flask, Docker, and Power BI. Experienced in secure authentication, role-based authorization, REST APIs, relational data modeling, testing, deployment, and benchmarking classical and deep-learning models. Focused on maintainable systems, clear technical decisions, and production-ready implementation.

EXPERIENCE

Freelance Full-Stack Web Developer

2023 - Present

Remote / Independent | Self-Employed

- Delivered 6+ client-facing web projects using Next.js/Supabase, React, PHP/MySQL, and Python/Flask from requirements through deployment and handoff.
- Implemented authentication, role-based dashboards, relational schemas, CRUD/admin workflows, responsive interfaces, testing, and release documentation.
- Worked across frontend, backend, database, and deployment layers to translate requirements into maintainable production-ready features.

Business Operator

2023 - Present

Arctic Daze | Remote

- Coordinate customer inquiries, order processing, product communication, service tracking, and follow-up support through digital channels.
- Support day-to-day online business operations while maintaining consistent product and customer communication workflows.

EDUCATION

BSc in Computer Science & Engineering

Graduated May 2026

Major in Data Science | East West University | Dhaka, Bangladesh

Relevant coursework: Data Structures & Algorithms, Database Systems, Machine Learning, Computer Vision, Web Engineering, Software Engineering, and Computer Networks.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C#, Python, PHP, SQL, HTML5, CSS3

Frontend: Next.js, React, Tailwind CSS, shadcn/ui, TanStack Query, React Hook Form, Zod, Bootstrap

Backend & APIs: ASP.NET Core, Entity Framework Core, Node.js, Flask, REST APIs, Swagger/OpenAPI, ASP.NET Identity

Databases & Security: PostgreSQL, Supabase, MySQL, SQL Server, SQLite, Prisma, JWT, RBAC, RLS

Testing & DevOps: xUnit, Docker, Git, GitHub, Vercel, Netlify, Render

CERTIFICATIONS

Getting Started with Full Stack Java Development | 26 June 2026 | Certificate Code: 10319619

Introduction to Generative AI Studio | 1 June 2026 | Certificate Code: 10295477

PROJECTS

SlateDesk - Academic Workflow Platform

Next.js | TypeScript | C# | ASP.NET Core | EF Core | PostgreSQL | Docker | xUnit

GitHub: github.com/abarman079/slatedesk

- Built Admin, Teacher, and Student workspaces with backend-enforced authorization, ownership rules, deadline policies, refresh-token handling, and optimistic concurrency.
- Added Swagger/OpenAPI, EF Core migrations, Docker setup, background workers, and targeted xUnit tests for critical business rules.
- Structured the application around role-aware workflows and server-side validation so academic actions remain protected beyond the user interface.

FrameSignal - Spoiler-Safe Movie Decision Platform

Next.js | React | TypeScript | Tailwind CSS | Supabase | PostgreSQL | Vercel

GitHub: github.com/abarman079/FrameSignal | Live: frame-signal.vercel.app

- Launched a deployed movie platform with spoiler-safe verdicts, ending explanations, theory analysis, discovery tools, and protected editorial workflows.
- Secured the CMS with Supabase Auth and PostgreSQL RLS, then added migrations, server-side publishing controls, sitemap, robots, metadata, and JSON-LD.
- Separated public discovery from staff-only publishing, keeping editorial operations private.

Arctic Daze - Commerce Platform Build

Next.js | React | TypeScript | Tailwind CSS | Supabase | GSAP | Motion

GitHub: github.com/abarman079/arctic-daze | Live: arctic-daze.vercel.app

- Built responsive collections, categories, product detail, account, authentication, saved-item, and guided product-request flows.
- Combined premium presentation with Supabase-backed account and data workflows and a public Vercel deployment.
- Applied GSAP and Motion animations to product discovery and browsing flows, keeping interactions polished and consistent across desktop and mobile viewports.

ADDITIONAL PROJECTS

RoleBoard - Role-Based Access Control

Next.js | React | Prisma | SQLite

- Implemented server-side permission handling across Super Admin, Moderator, User, and Guest roles with reusable authorization rules and API checks.
- Structured role-aware data access with Prisma and SQLite so protected actions remain enforced beyond the user interface.

CCTV Violence Anomaly Detection

Python | scikit-learn | TensorFlow/Keras | MobileNetV2

GitHub: github.com/abarman079/cctv-violence-anomaly-detection

- Benchmarked 8 classical and deep-learning models on a balanced 5,000-image dataset.
- Best result: MLP: 94.97% F1 | 99.10% ROC-AUC; MobileNetV2: 96.80% recall.

Face-Based Anomaly Detection

Python | FaceNet | scikit-learn | TensorFlow/Keras

GitHub: github.com/abarman079/Face-based-anomaly-detection

- Evaluated KNN, Isolation Forest, MLP, and convolutional autoencoder pipelines using 512-dimensional FaceNet embeddings.
- Best result: KNN: 99.39% ROC-AUC; MLP: 98.82% accuracy/F1 | 99.38% ROC-AUC.

CrackSAFE-MRC - Wall Crack Segmentation

Python | PyTorch | U-Net | U-Net++ | DeepLabV3+ | EfficientNet-B3

GitHub: github.com/abarman079/wallCrackWith2datasets

- Compared segmentation architectures using frozen splits, IoU/Dice, clean-surface false positives, diagnostics, and threshold sweeps.
- Best result: U-Net++: 0.5807 crack IoU | 0.7216 Dice; DeepLabV3+: 0.46% clean-surface false positives.

Retail Data Warehouse & Power BI Analytics

SQL Server | Dimensional Modeling | Power Query | DAX | Power BI

GitHub: github.com/abarman079/Data-Warehousing

- Designed a dimensional retail warehouse with a Fact Sales table and date, time, customer, product, category, invoice, and country dimensions.
- Built Power BI dashboards and DAX measures for total sales, invoices, customers, basket value, trends, country performance, and product analysis.

TravelEase - Travel Booking Platform

PHP | MySQL | PDO | PHPMailer | Bootstrap | Docker

GitHub: github.com/abarman079/travelease-webApp | Live: travelease.infinityfree.me

- Built Traveler, Agent, and Admin workflows with authentication, booking/payment states, password recovery, email, itineraries, support tickets, role guards, and transactional updates.

EWU FUB Energy Monitor

Python | Flask | SQLite | JavaScript | Chart.js

GitHub: github.com/abarman079/EWU_FUB_EnergyMonitor | Live: abarman123.pythonanywhere.com

- Developed a schedule-aware energy dashboard with room APIs, APScheduler collection, SQLite history, controls, and Chart.js visualizations.

PulseFlow - Emergency Hospital Management

PHP | MySQL | JavaScript | HTML | CSS

GitHub: github.com/abarman079/PulseFlow-emergency-hospital-management | Live: pulseflow.great-site.net

- Built role-specific patient, nurse, doctor, and admin workflows with authentication, database-backed dashboards, and separated operational areas.

EduConsult Pro

WordPress | PHP | JavaScript | HTML | CSS

GitHub: github.com/abarman079/EduConsult-Pro

- Built a client-portal project with custom post types, an Astra child theme, custom PHP plugin logic, authentication support, WooCommerce-ready components, and SEO-ready page structure.
- Extended the portal with client-dashboard features to support service booking workflows, content management, and future WooCommerce commerce integration.

LANGUAGES

Bengali: Native | English: Professional