

Yeasir Arafat

Software Engineer

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Profile

Software engineer architecting nationally deployed banking platforms at IFIC Bank PLC: eKYC customer onboarding, fully-online account opening, and central-bank regulatory reporting, built on Next.js, .NET 8, and Python (FastAPI) microservices under strict security and compliance requirements. Owns systems end to end, from API design, RSA-signed JWT/LDAP authentication, and maker-checker workflows to OCR and identity-verification pipelines and core banking integrations. Independently built and operates ProstutiHub, an e-learning platform with live payments and LLM-assisted content pipelines. Summa cum laude CSE graduate (CGPA 3.94/4.00) with five peer-reviewed AI publications; seeking software engineering roles building secure, high-impact products.

Technical Skills

Frameworks	Next.js, React, .NET (8/9), Node.js/Express, FastAPI, Flask, Flutter
Languages	Python, TypeScript/JavaScript, Java, C++, Dart, PHP, SQL
Databases	PostgreSQL, SQL Server, MySQL, MongoDB, Redis
Security & Auth	RSA-signed JWT, LDAP/Active Directory, OTP flows, maker-checker authorization, audit trails
Tools & Infra	Git, Docker, REST API design, Celery, Hangfire, SSRS, AWS (S3), Google Cloud Vision
AI / ML	PyTorch, TensorFlow, Scikit-learn, OpenCV, LangChain, LLM API integration

Experience

- Aug 2026 – Present **Senior Officer - IT, IFIC Bank PLC**, Data Processing & IT System Management, Head Office, Dhaka.
- Architecting the bank's digital onboarding and regulatory platforms end to end: eKYC customer onboarding, Selfed fully-digital account opening, and the RBS risk-based supervision reporting system.
- Design system architecture across Next.js frontends, .NET 8 backends, and Python (FastAPI) microservices.
 - Own maker-checker and BAMLCO compliance workflows and core banking (CBS/CES) integrations for party and account creation.
 - Build NID OCR and identity-verification pipelines (Google Cloud Vision, MediaPipe face liveness) used in production customer onboarding.
 - Design authentication shared across services: RSA-signed JWTs, Active Directory (LDAP) login, and OTP-verified flows.
- Aug 2025 – Jul 2026 **Management Trainee - IT, IFIC Bank PLC**, Data Processing & IT System Management, Head Office, Dhaka.
- Built enterprise-grade financial systems using Next.js and .NET with a focus on secure authentication, API design, performance optimization, and scalable web architecture under strict security and compliance requirements. Promoted to Application Architect & Developer after the first year.

- Apr 2025 – **Software Engineer - AI, BJIT Ltd., Dhaka.**
Jul 2025 Developed AI-driven solutions and contributed to R&D in machine learning and deep learning: designed and optimized model-backed workflows, integrated models into deliverable software, and collaborated with cross-functional teams to ship AI applications.
- Nov 2024 – **Trainee Software Engineer - AI, BJIT Ltd., Dhaka.**
Feb 2025 Completed an intensive AI/ML training programme covering model development, data workflows, deployment pipelines, and industry engineering practices using Python and TensorFlow.
- Oct 2022 – **Undergraduate Teaching Assistant, Department of Computer Science and Engineering, United International University.**
May 2024 Supported five CS courses (programming, OOP, data structures and algorithms) through lab sessions, grading, and student mentoring across eight trimesters.

Selected Projects

eKYC Customer Onboarding Platform, In production at IFIC Bank PLC.

- o Digital account-opening platform for a national bank: customer-facing portal, internal maker-checker/BAMLCO review console, and core banking (CBS/CES) integration for party and account creation.
- o Built a Python OCR microservice that extracts NID data with Google Cloud Vision to pre-fill applications, plus EC identity verification, dedup checks, and risk grading with a full audit trail.
- o Technologies: Next.js 16, .NET 8, FastAPI, Google Cloud Vision, SQL Server, LDAP, Hangfire.

Selfled - Digital Account Opening, In production at IFIC Bank PLC.

- o Fully-online account opening channel: OTP-verified registration and a 13-step application wizard with in-browser face liveness detection (MediaPipe), NID dedup against the CBS, and FATCA capture.
- o RSA-signed JWTs shared across the onboarding API and a single review console serving both digital and branch-led channels, keeping maker-checker and BAMLCO compliance intact.
- o Technologies: Next.js 16, .NET 8, PostgreSQL, MediaPipe, JWT (RSA), OTP.

RBS - Risk-Based Supervision Reporting, In production at IFIC Bank PLC.

- o Regulatory platform generating, validating, and submitting Bangladesh Bank credit-risk reports through a maker-checker-head-office approval chain with field-level approval granularity.
- o Stored-procedure-driven generation pipeline with PDF/HTML/CSV export via SSRS and Active Directory (LDAP) login.
- o Technologies: .NET 8, Next.js 16, SQL Server, SSRS, Dapper, LDAP.

ProstutiHub - AI-Driven Exam Prep & E-Learning Platform, 🌐, Personal product, live payments.

- o Solo-built LMS for competitive job-exam preparation: live/practice exams with server-authoritative timing and negative marking, video courses, a shared question bank, subscriptions, and live bKash/SSLCommerz checkout.
- o LLM-powered pipelines draft questions, course outlines, and quizzes and pre-grade written answers via Celery queues; every AI output is gated behind a human moderator review queue before publishing.
- o Technologies: FastAPI, Next.js 16, React 19, PostgreSQL, Celery, Redis, LLM APIs.

Valour - E-Commerce Platform, 🌐.

- o Production-style commerce stack on Clean Architecture .NET 9: Redis-backed carts, guest checkout, coupons, order lifecycle tracking, and a role-gated admin dashboard with revenue analytics.
- o Technologies: .NET 9, Next.js 16, PostgreSQL, Redis, AWS S3, Docker.

Decentralized Medical Image Sharing, 🌐, Published in IET Blockchain (2025).

- o Secure medical image sharing combining neural subject-sensitive hashing, AES-256 encryption, IPFS storage, and blockchain-based integrity verification; published as a first-author journal article.
- o Technologies: Next.js, Flask, MongoDB, PyTorch, Blockchain, IPFS.

Education

- Jan 2020 – **Bachelor of Science in Computer Science and Engineering, United International University, Dhaka.**
Jun 2024 CGPA: 3.94/4.00, awarded **Summa Cum Laude**; 100% merit scholarship for 6 trimesters

Publications [\[Google Scholar\]](#)

- 2025 **First author**: “Decentralized Medical Image Sharing: A Blockchain Based Approach with Subject Sensitive Hashing for Enhanced Privacy and Integrity.” *IET Blockchain* (Wiley). [\[DOI\]](#)
- 2026 Co-author: “FVCM-Net: Interpretable Privacy-Preserved Attention Driven Lung Cancer Detection from CT Scan Images.” *Biomedical Signal Processing and Control* (Elsevier). [\[DOI\]](#)
- 2023 Co-author of three peer-reviewed conference papers (IEEE ICCIT, Springer ISDS) on computer vision, big-data classification, and Bengali NLP.

Honors & Awards

- o **Summa Cum Laude**, B.Sc. in Computer Science and Engineering, United International University.
- o **Runner-Up**, UIU Intra-University AI Contest; **4th place** (public leaderboard), CUET ETE Day 2023 ML Competition; **8th place**, TFUG ML Olympiad.
- o **Codeforces**: max rating 1220 (Pupil), codeforces.com/profile/yeasirar.