MD ISTIAK MORSALIN

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PROFILE SUMMARY

- Senior Software Engineer with 8+ years of experience designing and delivering scalable mobile and web applications using Android, iOS, Flutter, Spring Boot, and Machine Learning frameworks.
- Platform-agnostic mobile developer with deep expertise in iOS and Android, and a strong interest in web technologies, AI, and computer vision.
- Led distributed teams and deployed high-traffic applications, including PayPay, serving millions of active users.
- Published research contributions in Artificial Intelligence and Computer Vision.
- Recognized as a Top 3% contributor on Stack Overflow with 10K+ reputation (profile link).
- Active open-source contributor maintaining projects on GitHub (github.com/Istiakmorsalin).
- Pursuing a Master of Science in Information Technology (2nd year), expected graduation in July 2026.

EDUCATION

M.S. in Information Technology, Kennesaw State University — Expected Jul 2026

Transferred from Georgia Southern University (completed Spring and Summer 2025 semesters in M.S. Computer Science)

B.Sc. in Computer Science and Engineering, Khulna University of Engineering and Technology — 2015

SKILLS

Languages	Python, Go, Java, Kotlin, Swift, Dart
Frameworks	Flutter, Django, Spring Boot, Android, iOS, TensorFlow, AnyLogic
Cloud	AWS (API Gateway, Lambda, S3, RDS, ML Deployment), Azure, Google Cloud, Databricks
DevOps	GitHub Actions, Docker, Bitrise, Kubernetes
Databases	MySQL, SQLite, MongoDB, Neo4j, Realm
APIs	REST, GraphQL, Microservices (Payments Systems at PayPay)
System Design	Scalable Architecture, Distributed & Transactional Systems
Testing	Unit Testing, Integration Testing
Tools	Xcode, VSCode, Jupyter, Google Colab

EXPERIENCE

Graduate Teaching Assistant — Aug 2025 – Present

Kennesaw State University — *Atlanta, USA*

- Provide teaching support for three undergraduate courses.
- Assist faculty with lecture preparation, grading, and mentoring students on technical coursework.
- Concurrently developing a healthcare information system for detecting sickle cell disease in Uganda, built with a Flutter-based mobile application and Django backend service stack.
- Deployed ML models as REST APIs across Azure, AWS, and Databricks, benchmarking accuracy, latency, and cost, then optimizing with quantization, batching, and autoscaling to cut inference time by 15 percent

Graduate Research Assistant — Jan 2025 – July 2025

Georgia Southern University — *Statesboro, USA*

- Engineered AI-powered warehouse simulations using AnyLogic, improving logistics efficiency modeling accuracy by 40%.

- Collaborated with industry partners (e.g., Rolls-Royce, Crider Foods, JTEKT, Port City Logistics) to align simulation outputs with real-world operational needs; project outcomes were highly appreciated by industry stakeholders.
- Earned recognition from the Lean IoT & Smart Systems Lab (SETU, Ireland) for innovative integration of AI and simulation modeling.
- Authored and presented 2 research papers in academic seminars and internal reviews.
- Mentored 3 undergraduate students, guiding two successful project completions and a student paper submission.

Senior Software Engineer — Deriv GO (Deriv)   July 2023 – November 2024
Cyberjaya, Malaysia

- Contributed to the Flutter-based Deriv GO mobile trading app, focusing on UI bug fixes, feature development, and code quality improvements.
- Implemented state management and feature logic using the BLoC/Cubit pattern; developed and maintained extensive unit and widget test coverage, improving code reliability and reducing production bugs by an estimated 25%.
- Conducted an in-depth architecture study of the project to evaluate scalability, modularization, and testability, providing recommendations that streamlined onboarding for new developers and reduced integration overhead across a 17-member engineering team.
- Performed peer code reviews and collaborated closely with product managers, QA, and senior engineers, ensuring consistent coding standards and contributing to faster release cycles and fewer post-release issues.
- Designed and developed a key feature module (UI + Cubits + test code) adopted by over 150k users, demonstrating ability to deliver production-ready, high-impact functionality.

Senior Software Engineer - G5   May 2020 – Jun 2023
Monstarlab Bangladesh   *Dhaka, Bangladesh*

- Architected 10+ cross-platform apps using Android, iOS, Flutter, Spring Boot, and ML, impacting over 2M end users.
- Designed scalable microservices with MVVM and Clean Architecture; reduced code duplication by 30%.
- Led sprint planning and risk analysis for 7 project releases; ensured 95% on-time delivery.
- Mentored and onboarded 8 junior developers and contributed to hiring process and coding assessments.

Team Leader   Jan 2020 – Apr 2020
Kite Game Studio   *Dhaka, Bangladesh*

- Directed a team of 4 developers to launch 2 mobile games using image processing and ML.
- Implemented vision-based gameplay features that increased user engagement time by 18%.

Software Engineer   Mar 2019 – Jan 2020
Cefalo   *Dhaka, Bangladesh*

- Collaborated with international clients in Agile Scrum teams to launch 3 new mobile features.
- Enhanced UI performance, reducing load time by 40% and improving accessibility.
- Conducted R&D on animation and gesture micro-interactions, improving usability scores by 25%.

Senior Software Engineer   Aug 2017 – Mar 2019
Monstarlab Bangladesh   *Dhaka, Bangladesh*

Software Engineer   Aug 2016 – Jul 2017
Monstarlab Bangladesh   *Dhaka, Bangladesh*

Software Developer   Jul 2015 – Jul 2016
Proficient Information System   *Dhaka, Bangladesh*

- Developed scalable backend APIs for FutureVault using Spring Boot; reduced query response times by 35%.

- Implemented React.js front-end modules, improving user onboarding experience and dashboard interactivity.

PROJECTS

24syv – https://www.24syv.dk/: Podcast and news streaming platform with offline mode and high-concurrency backend, built using **Ruby on Rails**, **AWS**, and native mobile technologies. The app was later acquired by **Berlingske Media**, Denmark's leading media group. .

Implemented offline-first feature (impacting 10K+ users), optimized home screen loading, and delivered daily podcast screen. Improvements reflected in higher App Store ratings.

Deriv Go – https://deriv.com/deriv-go/: Mobile trading app supporting real-time transactions and portfolio management. Served 50K+ users across platforms.

Snack – https://www.snackbyincome.sg/: Micro-investment and insurance app built with native Android and iOS. Adopted by NTUC Income and used by 100K+ users.

PayPay – https://paypay.ne.jp/: Japan's largest mobile payment solution with 38M+ users. Optimized iOS app delivery pipeline, reducing release cycle by 30%. Also lead a team of 5 iOS Engineers from Vietnam, mentored them and did code review.

Genelife – https://genelife.asia/: Genetic wellness platform integrating personalized health insights. Built secure mobile frontend and analytics backend, that impacted 1M users in Japan.

PUBLICATIONS

- "Accelerating Large Language Model Inference with WebGPU-Optimized Bidirectional Encoder Representation Architecture."
IEEE Transactions on Emerging Topics in Computational Intelligence, submitted, 2024 (Under Review)

- "GraphDPR: A Privacy Policy Analysis Framework Using Knowledge Graphs and Topic Modeling."
(In Preparation), 2024

- "Research on String Matching Edit Distance Algorithm and Jaro-Winkler Distance."
Springer, 2020. DOI: 10.1007/978-981-15-2317-5_25

TEACHING EXPERIENCE

Instructor, Workshop on Android – "Location, Sensor and Map" Khulna University (KU), 2013

Instructor, Workshop on Java – "OOP and GUI Programming" Khulna University of Engineering and Technology (KUET), 2013

Trainer, National Mobile Application Development: Awareness and Capacity Building Program Khulna, 2014

Instructor, Workshop on Embedded System Design using Microcontroller Khulna University of Engineering and Technology (KUET), 2011

ONLINE ACTIVITIES & COMPETITIVE PROGRAMMING

- Solved 350+ problems in **UVa Online Judge** – Profile Link
- **O(log N)** rated coder on HackerRank
- Participated and achieved various ranks in multiple programming contests, including:
  - Google Code Jam 2014
  - Facebook Hacker Cup
  - Other national and onsite contests