Md Iftakhar Ahmed Emon

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Skills

Languages: C/C++, Java, Python, Dart, JavaScript, SQL, Solidity

Technologies & Tools: Flutter, GetX, Provider, Riverpod, FlutterFlow, DhiWise, Android, Firebase, RESTful APIs, Firebase Cloud Functions, SQL, NoSQL, SQLite, AWS, EC2, Git, Docker, CI/CD, Push Notifications, TensorFlow, PyTorch, scikit-learn, NumPy, Pandas, Matplotlib, OpenCV, Figma, Android Studio, VS Code, MVVM, UI/UX Design, Canva, Agile

Work Experience

Techzency, Dhaka   July 2024 - March 2025

Application Developer (Flutter/Android/iOS)

- Designed and developed healthcare management app, e-Commerce app from the ground up, handling everything from UI/UX design to backend, frontend, and database integration. Delivered a seamless cross-platform experience using Flutter, compatible with both Android and iOS. Incorporated RESTful APIs and integrated third-party services such as push notifications and payment gateways.
- Enhanced overall app performance, resulting in a 30 percent reduction in load times and increased user engagement. Implemented MVVM architecture along with Clean Code practices to ensure scalability and ease of maintenance.
- Flutter, GetX, Provider, Android, RESTful APIs, Cloud Functions, Hive, Kubernetes, Docker, Git
- Another software solutions using JavaScript

NanoTech Solutions, Dhaka   February 2022 - April 2023

Flutter Developer

- As a Flutter Developer, skilled in building cross-platform apps using Flutter and Dart, with a focus on performance and clean architecture. Proficient in state management tools like Riverpod, Provider, and GetX for scalable and maintainable code.
- Experienced in working with Firebase and Supabase for backend services, authentication, and real-time databases. Well-versed in integrating RESTful APIs, along with Hive and SQLite for efficient data storage.
- Capable of implementing AI/ML features using PyTorch and TensorFlow, and designing intuitive UIs with Figma, following Material Design principles for a seamless user experience.
- Comfortable with version control and deployment using Git, DigitalOcean, Amazon EC2, and container tools like Docker and Kubernetes, while ensuring productivity in agile, team-based environments.

NIT Silchar, India   Aug 2022 - May 2024

Application Developer (Contract)

- Built a hotel management app to digitize and streamline operations, replacing traditional manual and spreadsheet-based systems.
- Key features in the admin/staff app include new room and booking management, QR code-based check-ins, real-time announcements, and service updates.
- The guest-facing app supports room booking, reservation history tracking, and access to hotel notices and services.
- Integrated secure authentication and deployed the system using Supabase, while leveraging DigitalOcean for efficient media and data storage.
- Flutter, Supabase, DigitalOcean, AI/ML, Figma, Git

UGRC, India   November 2023 - January 2024

Mobile Application Developer (Contract)

- Developed a full-stack blockchain management application as a contracted project under faculty supervision, overseeing the entire development cycle from design to deployment. Key functionalities included on-chain transaction tracking, wallet integration, and data visualization using Flutter and Firebase.
- Implemented secure user authentication with MetaMask and integrated role-based access for admins. Designed a responsive UI/UX aligned with Material Design guidelines for a seamless mobile experience. Utilized Flutter for cross-platform support across Android and iOS.
- Integrated Web3 support and smart contract interactions, ensuring secure and real-time blockchain communication.
  , Firebase, Riverpod, Web3dart, MetaMask, Git, DrawSQL

Personal Statement

I am an expert in developing high-performance mobile applications using Flutter, with a strong focus on code reusability, efficient design, and delivering exceptional UI/UX. I have in-depth experience with state management solutions like Riverpod, Provider, and GetX, as well as seamless integration of RESTful APIs, payment gateways, and third-party packages. Proficient in working with cloud platforms such as Amazon EC2, Firebase, Supabase, and DigitalOcean, I also utilize machine learning frameworks like PyTorch and TensorFlow for AI-powered solutions. Alongside my technical skills, I excel in team management, task delegation, and collaborative development, ensuring smooth workflows and timely project delivery. With 3 years of hands-on experience across 55–60 projects, I consistently bring innovation and expertise to diverse domains.

Education

NIT Silchar, India   Nov 2020 - Jun 2024
B.Sc. in Computer Science   *CGPA: 3.3/4*

Relevant Coursework: Software Engineering, Object Oriented Programming, Object Oriented Design, Digital Image Processing, Artificial Intelligence, Cryptography and Security, Algorithms, Compiler Design, Applied Probability, Android App Development, Database Management Systems, Data Structures, Computer Networks, Computer Graphics, Operating Systems, Compiler Design, Computer Architecture, Theory of Computation, Operating Systems, Natural Language Processing(NLP), Automata and Computability, Business Management, Managerial Economics, Discrete Mathematics, Digital Logic Design, Linear Algebra And Fourier Analysis, Ethical Hacking.

Project Work

- **SmartOrg Manager(2024):** Built an AI-powered app for managing organizations with features like automated profile approvals, role-based dashboards, attendance, payments, and media handling. Used Flutter, Firebase, PyTorch, and AI/ML technologies.
- **MoodWall (2022):** Created an AI-driven wallpaper app that recommends personalized wallpapers based on users' age, gender, and real-time emotions. Built using Flutter, Firebase, PyTorch, and AI/ML
- **Blockchain-Based Document Management System (2023):** Developed a secure document management system leveraging blockchain technology for immutable record-keeping, version control, and role-based access. The system ensured tamper-proof document storage, transparent audit trails, and efficient retrieval. Technologies: Java, SQL, Solidity, ZKP, Smart Contracts, Remix IDE (for metadata management and indexing).
- **Lung Cancer Detection Using Machine Learning(2024):** Developed an InceptionV3-based deep learning model for early lung cancer detection using histopathological images, achieving 94 percent accuracy on 15,000 augmented samples. Used transfer learning with TensorFlow/Keras for efficient feature extraction and optimization. Built a Flask-based web app for real-time prediction. Currently communicating a conference paper on this medical AI research. `https://github.com/MIftakharemon/Prediction_of_Lung_Cancer.git`

Awards and Certificates

- **Awarded Government Scholarship:** *ICCR (Indian Council for Cultural Relations) scholarship offer letter*,
- **SN Bose Summer Internship:** *Blockchain Technology in the context of documents management*,
- **Internship in Cyber Security:** *TalaKunchi Networks Pvt Ltd*,
- **Captain of champion team, NIT'S Premier League Football, 2022** *NIT Silchar*,

Publication

Accepted paper: '*Study of Blockchain Technology in The Context of Healthcare Managementa*' 4th International Conference on Modeling, Simulation and Optimization (CoMSO 2024)