

Imtiaz Mamun

Full-Stack Software Engineer

I am an enthusiastic and results-driven professional with extensive experience in Digital Product Development, Solution Design and Development, Rapid Prototyping, System Architecture, and Business Development by Full-Stack Software Development using Micro-services. A passionate learner and researcher, I bring a solid background in Mathematics, Artificial Intelligence, and Data Science. I am seeking a challenging role where I can leverage my diverse skill set and contribute to innovative projects in Digital Product Development and Data Science.



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WORK EXPERIENCE

Oct 2022 - Continue

Upay (UCB Fintech Company Limited)

Gulshan, Dhaka, Bangladesh

Software Engineer

- ➡ Spearheaded Full-Stack Development at Micro-Services and Automation initiatives, optimising the infrastructure and technology stack
- ➡ Solution design, demonstration, automation, and quality assurance processes based on the requirements
- ➡ Developing and managing data required for strategic business decisions, ensuring accuracy and relevance
- ➡ Collaborated with UX/UI design to implement suitable software architecture, following best practices
- ➡ Implement and adhere to security best practices to ensure the confidentiality, integrity, and availability of financial data

Jun 2018 - Sep 2022

Beximco Pharmaceuticals Limited

Dhanmondi, Dhaka,
Bangladesh

Full-Stack Programmer

- ➡ Lead in-house and promotional application development with a focus on quality and efficiency
- ➡ Full-Stack Software Solution design, implementation, and automation, following the best practices and the software development life cycle
- ➡ Prepare detailed charts and diagrams for clear communication of inputs, outputs, and logical operations
- ➡ Collaborate with UX/UI design teams to manage software architecture aligned with project requirements
- ➡ Improve data processing, mining, and reliability with a strong emphasis on efficiency and quality. Utilise advanced visualisation for conceptualising data models

EDUCATION

2013 - 2018 **Computer Science and Engineering**
Bachelor of Science United International University
(B.Sc) Dhaka, Bangladesh

2012 - 2011 **Science (with Higher Math and Biology)**
Higher Secondary Certificate Government Bangla College
(HSC) Mirpur, Dhaka, Bangladesh

2006 - 2010 **Science (with Higher Math and Biology)**
Secondary School Certificate Rajshahi Govt. Model School and College
(SSC) Dhaka, Bangladesh

EXPERTISE

Programming Languages	➤ Python, Java, C & C++, JavaScript, Unix & Shell Scripting
Front-end Development	➤ ReactJS, jQuery, Ajax, Bootstrap, HTML, CSS, SVG, Cross-Browser Compatibility
Back-end Development	➤ Django, NodeJS, Meteor, PHP, JSP, Spring MVC
Mobile Applications	➤ Android Native Programming, Android Studio, Unity, Google APIs, Augmented Reality
GUI Design	➤ Tkinter(Python), Swing(Java), OpenGL(C/C++)
Database Management	➤ PostgreSQL, Firebase, MongoDB, DynamoDB, SQLite, MySQL, Hibernate, Oracle
Data Format	➤ JSON, YAML, XML, CSV, HDF5
CI/CD Pipeline	➤ GitLab, GitHub, Bitbucket, Jenkins
Prominent Skills	➤ Docker, Kubernetes, Unit Testing, Arduino Programming Language, IoT
Prototyping	➤ Figma
Machine Learning	➤ Natural Language Processing, TensorFlow, Artificial Neural Network, Pattern Recognition, Deep Learning, NumPy, Pandas, Scikit-learn
Industrial Skills	➤ Agile Development, SDLC phases, SWOT Analysis, Use Case and UML Diagram, Analytical, Statistical, Flexible & Quick Learner
Operating System	➤ Linux, MacOS, Windows

Language Expertise

Bengali - Native Language

English - Professional

Hindi and **Urdu** - Listening and Speaking

CORPORATE PROJECTS

⇒ BULK ONBOARD AND SALARY DISBURSEMENT

- ➡ **Implementations:** Python, Django, PostgreSQL, ORM Queries, ReactJS, Docker, Kubernetes
- ➡ **Platform:** Web Application
- ➡ **Features:**
 - ⇒ **Effortless Onboarding:** Simplify company integration for quick setup.
 - ⇒ **Bulk Employee Management:** Manage large workforces with easy bulk uploads.
 - ⇒ **Secure User Access Levels:** Control access levels for enhanced security.
 - ⇒ **Swift E-Money Transactions:** Quickly lift and refund funds from company accounts.
 - ⇒ **Efficient Salary Processing:** Streamline salary disbursement with bulk uploads.
 - ⇒ **Transaction Security:** Ensure safety through tokenized authentication.
 - ⇒ **Dynamic Ledger Reports:** Generate detailed financial reports by date.
 - ⇒ **Batch Salary Summaries:** Obtain quick summaries of batch-wise salary disbursements.

⇒ SERVICE OPERATIONS AND REPORTING

- ➡ **Implementations:** PHP 7, jQuery, Ajax, PostgreSQL
- ➡ **Platform:** Web Application
- ➡ **Features:**
 - ⇒ Live Dashboard with Bar Chart, Pie Chart and Customer Status.
 - ⇒ Customized bulk reporting using micro-services with a dynamic access level.
 - ⇒ Monitoring various services for some periodic time and marking them in multilevel status mode by their inactive period.
 - ⇒ Bulk status updates for Merchant, Agent and Customer's transaction.

⇒ DIGITAL PRESCRIPTION

- ➡ **Implementations:** Python, Tkinter, SQLite
- ➡ **Platform:** Desktop Application
- ➡ **Features:**
 - ⇒ Write, print and store patient's prescriptions.
 - ⇒ Get suggestions for medicine, doses, symptoms, surgery plans and many more.
 - ⇒ View patient history and track improvement records.

⇒ COVID-19 VACCINATION & APPOINTMENT

- ➡ **Implementations:** Meteor, MongoDB
- ➡ **Platform:** Web Application
- ➡ **Features:**
 - ⇒ Get appointment dates and information from the users.
 - ⇒ Schedule an appointment according to the total booth number and 10 people per vial.
 - ⇒ Send an alert to the user with the scheduled time and booth number.
 - ⇒ If absent at the scheduled time, reschedule and send an alert.
 - ⇒ Inventory management system for administration.
 - ⇒ Requisition management system for booth administration.
 - ⇒ Batch no. tracking and priority scaling.

⇒ ONCOLOGY DRUG HOUSE

- ➡ **Implementations:** Meteor, MongoDB
- ➡ **Platform:** Web Application
- ➡ **Features:**
 - ⇒ Collects patient requisition and Assigns a person from the sales team by admin
 - ⇒ Supply medicine by assigned person and tracks timeline and cycles per patient
 - ⇒ Send an alert to the salesperson about the next cycle date of their assigned patients
 - ⇒ Keeps tracking improvement records

ACADEMIC THESIS AND PROJECTS

⇒ RESEARCH PUBLICATIONS

- ➡ **Organization:** IEEE
- ➡ **Title:** Event Detection and Knowledge Mining from Unlabeled Bengali News Article
- ➡ **Link:** <https://ieeexplore.ieee.org/document/9350891>

⇒ B.Sc THESIS

- ➡ **Title:** Event Detection and Violence Recognition from Textual News through Multilayer Perceptron and Supervised Learning
- ➡ **Link:** <http://dspace.uiu.ac.bd/handle/52243/603>

⇒ PROJECTS

➡ AUTO SMART CITY

- ⇒ **Intelligence Properties:** Ant Colony Algorithm, Tf-Idf Scoring, Priority Scheduling Algorithm and Reinforcement Learning Algorithm
- ⇒ **Objective:** Reducing traffic using distributed routing and increasing the average movement speed in a city using GPS sensor attached with the vehicle registration number plate.
- ⇒ **Implementations:** Android, Java, JSP, Firebase, MySQL
- ⇒ **Description:** Reduces traffic by forecasting time and route for a particular distance based on the real-time movement of the transports. Users get an alert if their daily route holds very high traffic rather than the other routes. A suitable route is distributed for each individual by the priority scheduler where the priority scale is assigned with the journey starting time and the distance of the destination.
- ⇒ **Screenshot and Video:** <https://antu-mamun.github.io/#project>

➡ YIELD BOOSTER

- ⇒ **Properties:** K-Means Clustering, and K-Nearest Neighbors Classifier
- ⇒ **Implementations:** Java, JSP, MySQL
- ⇒ **Features:**
 - Classifying crops for production based on the soil's minerals, texture, pH values, carbon, fertility, climate and geographical environment.
 - Clustering crops based on the seasons, production cost per acre and maximum harvesting per year.

PERSONAL INFORMATIONS

- ⇒ **Father's Name:** Md. Shariful Alam
- ⇒ **Mother's Name:** Most. Masuda Parvin
- ⇒ **Nationality:** Bangladeshi
- ⇒ **Matrimonial Status:** Married
- ⇒ **Hometown:** Puthia, Rajshahi
- ⇒ **Present Address:** Adabar, Dhaka-1207
- ⇒ **Blood Group:** B+
- ⇒ **Interests:** Chess, Badminton, Table Tennis, Football, Volleyball, Cricket, Guitar, Planting, History, Technology, International Politics

REFERENCES

- ⇒ **MOHAMMAD NURUL HUDA**
 - ⇒ Professor & Head of the Department
 - ⇒ United International University
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- ⇒ **MD. FARIDUL ALAM**
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