Imtiaz Mamun

Full–Stack Application Developer

I am an enthusiastic and results-driven professional with a proven track record in Digital Product Development, Solution Design and Development, Rapid Prototyping, System Architecture, and Business Development through Full-Stack Software Development using Micro-services. Leveraging my solid background in Mathematics, Artificial Intelligence, and Data Science, I am committed to pursuing a challenging role where I can utilize my diverse skill set to contribute to innovative projects in Digital Product Development and Data Science. With a passion for continuous learning and research, I am eager to tackle new challenges and drive impactful results in a dynamic and forward-thinking environment.

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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 *Bachelor of Science* **(B.Sc)**	**Computer Science and Engineering** United International University Dhaka, Bangladesh
2012 - 2011 **Higher Secondary Certificate** **(HSC)**	**Science** (with Higher Math and Biology) Government Bangla College Mirpur, Dhaka, Bangladesh
2006 - 2010 **Secondary School Certificate** **(SSC)**	**Science** (with Biology and Agricultural Education) Rajshahi Govt. Model School and College Dhaka, Bangladesh

EXPERTISE

Programming Languages	➢ Python, Java, PHP, C & C++, JavaScript, Shell Scripting
Front-end Development	➢ ReactJS, jQuery, Ajax, Bootstrap, HTML, CSS, SVG, Cross-Browser Compatibility
Back-end Development	➢ Django, Node.js, Meteor.js, RESTful and GraphQL APIs, JSP
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, Redis, DynamoDB, SQLite, MySQL, Hibernate, Oracle
Data Format	➢ JSON, YAML, XML, CSV, HDF5
CI/CD Pipeline	➢ GitLab, GitHub, Bitbucket, Jenkins
Prominent Skills	➢ Docker, Kubernetes, Celery, Microservices, Unit and Integration Testing, Arduino Programming, IoT
Prototyping	➢ Figma
Machine Learning	➢ Natural Language Processing, TensorFlow, Artificial Neural Network, Pattern Recognition, Deep Learning, NumPy, Pandas, Scikit-learn
Industrial Skills	➢ Jira, Trello, Zoho Projects, 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 tokenised 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.
  - ⇨ Single and bulk status updates for Merchant, Agent and Customer's transactions.

⇒ **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:** Node.js, Meteor.js, MongoDB
- ➥ **Platform:** Web Application
- ➥ **Features:**
  - ⇨ Get appointment dates and information from the users with the nearest vaccine centre.
  - ⇨ Schedule an appointment according to the total booth number and 10 people per vial.
  - ⇨ Send an SMS 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:** Node.js, Meteor.js, MongoDB
- ➥ **Platform:** Web Application
- ➥ **Features:**
  - ⇨ Collects patient requisition and Assigns a person from the sales team by admin.
  - ⇨ Supply medicine by assigned person and track 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, location 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
- ➟ **Permanent Address:** 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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- ↪ Department of Social Services

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