

Mashuke Alam Jim

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EDUCATION

BACHELORS IN COMPUTER SCIENCE & ENGINEERING

UNITED INTERNATIONAL UNIVERSITY

School of Engineering
Jul 2022 | Dhaka, BD
Cum. GPA: 3.65 / 4.0

HIGHER SECONDARY CERT.

Jun 2017 | Dhaka, BD
GPA: 5 / 5

SKILLS

STACKS

FRONTEND:

- React
- NextJS
- Tailwind

BACKEND:

- Ruby on Rails
- Express

CLOUD:

- AWS

ADDITIONAL:

- React Native Expo

LANGUAGES

- Javascript
- GoLang
- Ruby
- Python

COURSEWORK

UNDERGRADUATE

Software Analysis & Design

Artificial Intelligence + Pattern Recognition

Database Design

Operating Systems

Structured Programming

Computer Graphics

Linear Algebra

Laplace Transforms

Statistics

(Got scholarship in all semesters based on merit)

EXPERIENCE

NASCENIA | JR. SOFTWARE ENGINEER

Oct 2023 - Present | Dhaka, BD

Worked on Uddogi, a VAT/GST tax platform handling sensitive financial data made with **Ruby on Rails**

- Optimized high-traffic pages, reducing average load time by **10%** through refactoring legacy UI/JS and removing redundant logic.
- Resolved numerous critical bugs that were corrupting transactional calculations, and built a recovery workflow to detect, correct, and reconcile affected records even after inconsistencies had already occurred.
- Implemented branch-wise inventory segregation a highly sensitive change that required reworking core business rules and refactoring the websites end-to-end logic to support accurate multi-branch operations.
- Designed an Excel bulk upload pipeline that safely processes **1000+ of transactional entries per upload**
- Refactored and optimized 50+ complex queries and added fail-safes, improving report generation speed by over **20%** and system stability under deadline pressure.
- Managed and maintained **3 onsite production servers**, handling deployments, monitoring, and incident response, reducing service downtime by **20%**.

PROJECTS

MARSHALLGO | LINK

May 2024

- This tool is made to automate MVC patterns rapidly in GoLang
- By filling a form for database table, it generated codes for models, views, controllers automatically
- All CRUD operations are created so developers can just focus on the fronted customisation
- Tech used: **GoLang, HTML/CSS/JS**
- Demo: **Youtube**

SKYDROP | LINK

Jul 2023

- The app uses peer-to-peer networking to connect two devices directly (kind of like torrenting) for image sending
- Used socket to gain IP address predicting if two devices are on same network
- Implemented a WebRTC P2P structure to enable sharing images between these two devices
- Tech used: **React, WebRTC, Tailwinds**

PRICE TRACKER | LINK

Aug 2022

- Implemented cron job to periodically check prices and send email when product prices are in customers desired range which were the defining feature of this group project
- Tech used: **Express, CronJobs, Cheerio.js**

HONORS

2023-2024

Got invited to Google Foobar and completed 4 levels (out of 5)