

# 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

### MARSHALGO | 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)