



# Muhammad Nasif Imtiaz

Dhaka, Bangladesh

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## RESEARCH INTEREST

- Distributed systems
- Human Computer Interaction
- Real-Time Data Processing
- Software Engineering
- Differential Privacy
- Dynamic Reporting Systems
- Context-Aware Computing
- Chatbot optimization
- Database systems

## RESEARCH EXPERIENCE

Undergraduate Thesis : VLSI Layout Design of Bidirectional Shift Register Using Open Source EDA Tools

Supervisor - Dr. Md. Mostofa Akbar (Professor, CSE, BUET)

- Designed a bidirectional and circular bidirectional shift register VLSI layout using RTL code
- Generated VLSI layout from netlist
- Calculated optimal power consumption for the layout to function normally

## SKILLS

### Programming Language

C++  
Python  
JavaScript  
Java  
C  
PHP  
SQL

### Frameworks

Django  
Django DRF  
Symfony  
Bootstrap  
VueJS  
Angular  
Langchain

### Operating System & Others

Git  
RabbitMQ  
Redis  
Docker  
Windows  
Ubuntu  
Raspbian OS

## EDUCATION

### BSc in Computer Science and Engineering

Bangladesh University of Engineering and Technology | Dhaka, Bangladesh

CGPA: 3.05/4.0

Mar 2018 – May 2023

### Higher Secondary Certificate, Science

Rajshahi College | Rajshahi, Bangladesh

GPA: 5.0/5.0

Jan 2016 – Jun 2017

### Secondary School Certificate, Science

Govt. Laboratory High School | Rajshahi, Bangladesh

GPA: 5.0/5.0

Jan 2010 – Dec 2015

## WORK EXPERIENCE

### Consultant — BengalQA, Dhaka, Bangladesh

Jan 2024 – Present

- Designed the Chatbot intended for a hospitality system's front desk agent.
- Utilized OpenAI API for the chatbot's development.
- Integrated Retrieval-Augmented Generation (RAG) to support personalized QA.
- Implemented Redis to optimize chat history storage.

### Part-time Software Engineer — AODoubleClick, United States of America (REMOTE)

Oct 2022 – Present

- Built services to help vendors sign up and verify their documents
- Upgraded CSS framework from Bootstrap 3 to Bootstrap 5.3.3
- Integrated STRIPE APIs for fast and secured online payment
- Developed Employee Management System for Retailer, Supplier and Admin.

### Assistant Software Engineer — Computer Network Systems Limited, Dhaka, Bangladesh

Jun 2023 – Jun 2024

- Developed a Business Intelligence (BI) engine for insurance forecasting
- Implemented data pipeline to integrate import/export ML models
- Developed an employer assessment platform, contributed on frontend.
- Worked on a Call Center project from Insurance Development Regulatory Authority to switch from Laravel to Spring
- Was involved with a government project from Bangladesh Road Transport Authority (BRTA) to design the frontend of MVTAX, a system that collects fees nationwide

- Implemented and optimized RabbitMQ to send and receive messages via exchange.

## PROJECT WORK

### Tour Carnival (Medical)

AWS, Spring, NextJS, MySQL

A doctor directory website that responds to user-specific queries and includes doctor appointment management features.

### Bengal Bay - CSE 408

Level 4 - Term 1

Django, MySQL, Javascript, Bootstrap, Open Street Map (LeafletJS), Redis, Multi-threading, Email Automation

An E-Commerce based webapp to sell, auction and track delivery of the products from hub to hub. A map is added for navigating the shops and delivery address. Automated emails after a successful product purchase and OTP validation before product delivery.

### Hotel Management and Billing of Residential Hotel - CSE 326

Level 3 - Term 2

Django, Django Rest Framework, MySQL, VueJS, Bootstrap

A web application used for hotel management. It includes billing, journal records, customer records and inventory management for hotel amenities.

### Bounce and Rush - CSE 316

Level 3 - Term 1

ATmega32, Proteus, C

A microcontroller based game inspired from google chrome's offline mode Dino Rush. Built using Proteus and ATmega32 microprocessor. Contributed in designing the circuit diagram in Proteus. Programmed the logical codes.

### Startech - CSE 216

Level 2 - Term 2

Django, Oracle, Bootstrap, Javascript

A web application for showcasing products, managing inventory, and POS with integrated sales reporting.

### Online Exam System - CSE 108

Level 1 - Term 2

Java, JavaFX

A Java and JavaFX-based examination portal which enables teachers to create and manage multiple-choice questions (MCQs) for specific subjects. Students can take exams using the platform and their performance records are saved within the system.

### Hit the Ball - CSE 102

Level 1 - Term 1

C

A one player game based on shooting moving targets.

## AWARDS

- Secured 8th position in GAMEJAM 2023 / Dhaka, Bangladesh
- Received General Board Scholarship in HSC 2017 / Rajshahi Board, Bangladesh
- Received General Board Scholarship in SSC 2015 / Rajshahi Board, Bangladesh

## REFERENCE

### Dr. Md. Mostafa Akbar

Professor, Department of CSE, BUET

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### Dr. Muhammad Abdullah Adnan

Professor, Department of CSE, BUET

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