

Nur Uddin Ibne Huda

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Education

Bangladesh University of Engineering and Technology

B.SC. IN COMPUTER SCIENCE AND ENGINEERING

CGPA: 3.25

Feb. 2020 - Mar. 2025

Notre Dame College

HIGHER SECONDARY SCHOOL CERTIFICATE

Result: 5.00 GPA

Jul. 2017 - Jun. 2019

Experience

Software Engineer - Intern at Surround Security

CYBERSECURITY RESEARCH PROJECT FOR ANDROID APPLICATION

Dhaka (REMOTE)

Jan, 2025 - Running

Skills

Programming Language Python, Java, C++, JavaScript, C

Frameworks & Libraries NextJS, Flutter, Django, DjangoREST, ReactJS, VueJS, JavaFX

AI/LLM Tool PyTorch, OpenCV, LSTM, Vision Transformer, RAG, LangChain

DataBase Oracle, PostgreSQL, MySQL, Django ORM

Tools & Software Git/Github, Docker, Postman, NS-3, Bison, Flex

Projects

Bangla Image Caption Generator 🔄

Pytorch • Keras • OpenCV • LSTM •

Vision Transformer

DEVELOPED A MACHINE LEARNING MODEL FOR GENERATING BANGLA IMAGE CAPTIONS USING CNN-LSTM ARCHITECTURE.

CREATING AND PREPROCESSING CUSTOM DATASET WITH IMAGE-CAPTION PAIRS.

2024

- Built image preprocessing pipeline using OpenCV and VGG16 for feature extraction
- Implemented attention mechanism and beam search for caption generation
- Developed custom data augmentation techniques for model training

StayNest 🔄

Next.js • Django REST • Supabase •

PostgreSQL • MapTiler • Tailwind

DEVELOPED A FULL-STACK PROPERTY RENTAL PLATFORM WITH FEATURES INCLUDING INTERACTIVE MAP INTEGRATION,

MULTI-STEP PROPERTY REGISTRATION AND REAL-TIME AVAILABILITY TRACKING. IMPLEMENTED MICROSERVICES FOR SCALABLE

2024

BOOKING MANAGEMENT AND PRICE NEGOTIATIONS.

- Engineered role-based access control with JWT authentication and Supabase integration
- Integrated MapTiler SDK for location-based property search with interactive map visualization
- Designed dynamic pricing system with meal package customization and real-time price calculations

Football Transfer Market 🔄

Java • JavaFX • Socket

Programming • Multi-threading

CREATED A REAL-TIME FOOTBALL TRANSFER MARKET PLATFORM USING MULTI-THREADED ARCHITECTURE FOR CONCURRENT

CLUB OPERATIONS AND PLAYER TRADING.

2021

- Implemented concurrent socket connections for real-time player trading between clubs
- Designed thread-safe data structures for managing market state and transactions

Railway E-Ticket System 🔄

Oracle • Django • PL/SQL • Python

DESIGNED AND IMPLEMENTED A RAILWAY TICKET RESERVATION SYSTEM WITH DATABASE ARCHITECTURE FOR HANDLING

CONCURRENT BOOKINGS AND REAL-TIME SEAT MANAGEMENT.

2022

- Built transaction management system with automated timeout and rollback mechanisms
- Implemented complex SQL queries for route-based fare calculation and seat allocation

RAG-based Conversational AI (Thesis) 🔄

Python • Hugging Face • NLP • RAG

LEVERAGING DOMAIN ADAPTATION OF RETRIEVAL-AUGMENTED GENERATION (RAG) MODELS FOR CONVERSATIONAL AI IN

CUSTOMER SERVICE. FINE-TUNED MODEL USING DOMAIN-SPECIFIC DATASETS AND OPTIMIZED RETRIEVAL MECHANISMS.

2024-2025

Certifications

Machine Learning Specialization

Coursera

DEEPLARNING.AI & STANFORD ONLINE, INSTRUCTOR: ANDREW NG

2024

Certificate 