

Fardeen Hasib Mozumder

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EDUCATION

MS in Computer Engineering (Software Development and AI track)
TEXAS A&M UNIVERSITY, CGPA: 4.00/4.00, GRADUATE TEACHING ASSISTANT

College Station, TX | Dec 2023

BS in Electrical & Electronic Engineering
ISLAMIC UNIVERSITY OF TECHNOLOGY, CGPA: 3.98/4.00, SILVER MEDALIST

Dhaka, Bangladesh | Dec 2017

WORK EXPERIENCE

AKW VENTURES | SOFTWARE DEVELOPER INTERN

Remote | June 2023 - Dec 2023

- Developed an LLM-powered app using **Langchain** that helps geologists to estimate surface tops with **90% accuracy**.
- Improved **response time by 30%** by updating the interface with React.js from the legacy Streamlit frontend.
- Deployed and maintained the SAAS app on the Azure platform for high scalability, availability and security.

TAMU ZLP | WEB DEVELOPER

College Station, TX | Oct 2021 - Dec 2021

- Developed TAMU ZLP Scheduler, which finds suitable and non-conflicting time slots for 3 different cohorts of 30 students, utilizing Agile design methodology, Ruby on Rails framework.
- Wrote Cucumber/RSpec tests to increase the **test coverage** from **59.3% to 82.1%** and fixed bugs of legacy project.

ISLAMIC UNIVERSITY OF TECHNOLOGY | FULL STACK DEVELOPER

Bangladesh | Jan 2018 - Aug 2021

- Achieved a **30% improvement in the university's website performance** by optimizing frontend code, reducing load times, and enhancing user experience, resulting in increased user engagement and satisfaction.
- Implemented a **real-time notification system** using **WebSockets**, resulting in a **25% increase in student engagement** with academic events, news, and campus updates.
- Streamlined database queries, reducing query execution times by 40%**, and improving the system's response time, enabling staff to access student records and administrative data more efficiently.
- Led the **development of a modular and scalable architecture** that facilitated the rapid deployment of new features and **reduced development time by 20%**, enhancing the university's ability to adapt to changing educational needs.
- Implemented rigorous security measures and ensured GDPR compliance for student data, maintaining a flawless record of data security with zero data breaches over a two-year period, safeguarding sensitive information for thousands of students and faculty members.

BANGLADESH TELECOM | SOFTWARE ENGINEERING INTERN

Dhaka, Bangladesh | Nov 2016 - Dec 2016

- Built an ETL pipeline** for data ingestion from a web app with 5 millions daily active users, **saving \$50,000 annually**.
- Used Spark in Python to distribute data processing on large streaming datasets, **improving ingestion by 25%**.

PROJECTS

NATURAL LANGUAGE INFERENCE FOR CLINICAL TRIAL DATA | Report NLP, HUGGINGFACE, PYTORCH

- Implemented BERT based classifiers to predict if a medical hypothesis is an entailment/contradiction of a given CTR.
- Infused disease knowledge on the models to increase the accuracy by around 3% on average from the base models.

E-COMMERCE WEBSITE FOR STARTUPS | Report

PYTHON, DJANGO, MYSQL, REST API, HTML, CSS

- Developed a reliable and secured E-commerce website suitable for small/medium startups including features: User Sign-up/ login, Order placement, Payment gateway by integrating SSLCommerz API.

SKILLS & COURSEWORK

- HTML, CSS, JavaScript, Python, JAVA, Django, C++, React.js, Node.js, MongoDB, MySQL, PyTorch, Pandas, Git
- The Complete Full Stack Web Development Bootcamp, issued by Udemy, June 2023
- Software Engineering, Natural Language Processing, Data Mining & Analysis, Machine Learning, Distributed System & Cloud Computing, Parallel Computing, Reinforcement Learning, TCP/IP Modelling, Database Design