

TANVEER MUTTAQUEEN

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PROFESSIONAL EXPERIENCE

GOOGLE

SOFTWARE ENGINEER III

SOFTWARE ENGINEER II

DUBLIN, IRELAND

Nov 2023 - PRESENT

APR 2022 - OCT 2023

- As part of backend infrastructure team (ti-gcp) working on end-to-end monitoring, alerting, and repair pipeline. Improved alerting for false positive detection by 6%.
- Worked with external vendors for RMA automation from our ticketing system without going to vendor portal saving X FTE hours and human toil.

Tools: Go, C++, Distributed Systems, Distributed Database, Scalable and Reliable Systems Design, DevOps, Networking, Back-End Development, Kubernetes, Message Queue, Data Pipeline, State of the Art CI/CD

TIGERIT BANGLADESH LTD.

SOFTWARE ENGINEER

DHAKA, BANGLADESH

SEP 2021 - APR 2022

- Worked on an end-to-end pipeline of a Deep Learning-based Facial Recognition System. One of the major customers of this is Bangladesh Government. Improved accuracy by using Age Invariant Model and fine-tuning the dataset. Improved testing by developing a service GA internally.

Tools: C++, Python, Django, Docker, Pytorch, OpenCV, LMDB, HDF5, MySQL

PRIOSYS LTD.

SOFTWARE ENGINEER

DHAKA, BANGLADESH

FEB 2021 - AUG 2021

- Migrating part of the database from RDBMS to NoSQL and using a Quadtree-based approach based on Geohash, brought down nearby news query from 900ms to sub 100ms latency.
- Built a bidding website like eBay from scratch. Gained 30k+ daily active users within 3 months of launching. Later, Added an auto-bid feature, sales subsystem, and subsystem supporting seller APIs.
- As the Priyo's payment gateway is used by all other Priyo systems, improved reliability by adding metrics and monitoring. Integrated various server-side payment gateways to the "Priyo Pay" system.

Tools: Python, Django, Postgresql, AWS Dynamodb, AWS lambda, Celery, Redis, Django REST Framework

EDUCATION

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

B.SC IN COMPUTER SCIENCE AND ENGINEERING

GRADUATED: FEB 2021

CGPA: 3.84/4.00 (12TH/143 STUDENTS)

SKILLS

- **Languages:** Go, C++, Python, Unix Shell
- **Problem Solving:** Solved 2000+ Algorithmic Problems in Multiple Online Platforms Using C++
- **Databases:** PostgreSQL, MySQL, Redis
- **Frameworks/Tools:** Django, Pytorch, Celery, Kafka, Docker, Django REST Framework
- **Cloud:** AWS Lambda, S3, DynamoDB, EC2, Glue, Athena, RDS

AWARDS

- **ACM ICPC:** [World Finalists \(2019\)](#), Dhaka Regional (2019), Dhaka Regional (2018), Dhaka Regional (2017), Dhaka Regional (2016)
- **Codeforces:** Max Rating 2085 (Top 3.2%). ID: [t.muttaqueen](#)
- **Codejam:** [1112th \(Top 3.1%\)](#) in 2019, [1397th \(Top 5.7%\)](#) in 2018
- **National Programming Contests:** Within [Top 3](#) in Multiple National Programming Contests.
- **Awards for Academic Excellence:** Dean's Honor List, University Merit Scholarship in multiple terms in BUET.

PUBLICATION

- **CoDesc: A Large Code-Description Parallel Dataset** ([link](#))
Findings of the Association for Computational Linguistics, ACL 2021
Fine tuned 4.2M dataset achieving SOTA results in Code summarization using Transformer-based sequence-to-sequence neural network.