

# Tanveer Muttaqueen

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## 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

C, C++, Python, Java, Unix Shell

### Problem Solving

Solved 2000+ Algorithmic Problems in Multiple Online Platforms Using C++

### Databases

PostgreSQL, MySQL, AWS DynamoDB, Redis

### Frameworks/Tools

Django, Pandas, Numpy, Pytorch, Celery, Django REST Framework, Docker

### Cloud

AWS, AWS Lambda, Amazon S3

## AWARDS

### ACM ICPC

[World Finalists](#) (2019), [4th](#) (Dhaka Regional, 2019), [2nd](#) (Dhaka Regional, 2018), [5th](#) (Dhaka Regional, 2017), [5th](#) (Dhaka Regional, 2016)

### Codeforces

[Max Rating 2085 \(Top 3.2%\)](#) ([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.

12.10.2021

## EXPERIENCE

### TigerIT Bangladesh Ltd.

SOFTWARE ENGINEER, R&D DEPARTMENT

Sept 2021 – present

DHAKA, BANGLADESH

- Working on a deep learning based facial recognition system that is being used nationally in Passport, Driving License system. My task is creating, fine tuning datasets, creating a pipeline for updating existing facial bounding box detection, face alignment and facial feature vector extractor model overtime for better accuracy and faster testing and validation.

**Tools:** C++, Python, OpenCV, PyTorch, Docker

### PriyoSys Ltd.

SOFTWARE ENGINEER

Feb 2021 – Aug 2021

DHAKA, BANGLADESH

- Modified existing nearby news retrieval system by taking it into a serverless system and designing the migration from RDBMS to NOSQL database. Used Quad-tree based approach using integer geohash for faster results. The API call now gives response with less than 100ms.
- Worked on a bidding and selling website like eBay with daily active users 30k+. Added autobid feature, sales subsystem and subsystem supporting seller APIs.
- Improved payment scalability of 'Priyo Pay' system by integrating various server side payment gateways. This is serving as a crucial component in many Priyo services.

**Live link:** [sowda.com](#)

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

## PROJECTS

### Academic Project: Search Engine

Aug 2016 - Oct 2016

Built a Crawler, Indexer and a Simple Search Engine interface.

**Technology/Tools:** Java, Multithreading, Networking

### Academic Project: Tour Planner

Mar 2019 - May 2019

Tour Planner website. Takes user preference and shows a detailed tour plan.

**Technology/Tools:** Python, Django, SQLite, Map API, Weather API

## PUBLICATION

### CoDesc: A Large Code–Description Parallel Dataset ([link](#))

*Findings of the Association for Computational Linguistics, ACL 2021*

Collected and fine tuned 4.2 Million code-natural language pair. This larger preprocessed dataset achieved new SOTA result in code summarization using existing sequence to sequence models.