

Mesbah Uddin Tanvir

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Professional Experience

Meta Platforms Inc. — *Backend Software Engineer*

Canada, Aug 2022 – Present

- **Architected & Owned** end-to-end infrastructure for propagating organic signals to Ads Delivery systems, reducing signal processing latency from 200ms to 8ms and driving measurable gains in ad relevance and revenue.
- **Led cross-team integrations** across ads, organic systems, and ML pipelines, designing extensible infrastructure powering Facebook surfaces (News Feed, Reels, Stories).
- **Developed messaging infrastructure** connecting WhatsApp with Ads Manager, enabling advertisers to manage outreach through a unified platform.

Tech Stack / Tools: C++, Hack/PHP, Memcached, React

ByteDance — *Backend Software Engineer*

Singapore, May 2020 – Aug 2022

- Built OLAP data infrastructure with elastic compute and pluggable storage (S3, HDFS), enabling **large-scale analytics across multiple product teams**.
- Designed a fault-tolerant metadata service with WAL + distributed locking, achieving **99.99% availability** and strong consistency under high load.
- Developed a secure DB gateway handling **hundreds of concurrent connections** with low latency, ensuring reliable access for mission-critical services.
- Mentored interns and new hires, established infrastructure design/testing best practices, and conducted 50+ technical interviews to support rapid organizational growth.
- Served as on-call lead in a high-availability environment, coordinating incident response and driving postmortem improvements.

Tech Stack / Tools: Golang, MySQL, ClickHouse, Redis, Elasticsearch, Kubernetes, AWS, GCP

Grab — *Backend Software Engineer*

Singapore, Oct 2019 – Apr 2020

- **Engineered vendor portal backend** to serve **millions of transaction history queries**, optimizing performance with caching and pagination.
- Extended campaign infrastructure to allow merchants to seamlessly join and manage promotions, directly improving monetization.

Tech Stack / Tools: Golang, MySQL, gRPC, Kubernetes, Redis

Education

BSc in Computer Science & Engineering *University of Dhaka, Bangladesh* Jan 2015 – Jan 2019

Projects

www.yourthoughts.ca — *Mental health self-help platform*

Developed a mental health platform based on Cognitive Behavioral Therapy, featuring assessments, journaling, and mood tracking. Demonstrated **end-to-end ownership** from concept to production.

Tech Stack / Tools: Golang, MongoDB, Terraform, Redis

Achievements & Volunteering

- 2nd Place — DU_MachineMen, National Programming Contest 2018 (130+ teams)
- 5th Place — DU_Inception, ACM ICPC Dhaka Regional 2017 (150+ teams)
- **Problem Setter & Judge** — National Girls Programming Contest (2018), National Programming Contest (2019)

Technical Skills

Languages: Golang, C++, Hack/PHP, SQL

Distributed Systems & Databases: MySQL, Redis, ClickHouse, Elasticsearch

Cloud & Infrastructure: Kubernetes, AWS, GCP, Terraform

Frameworks & Tools: React, gRPC, Memcached, LLM

Core Expertise: Algorithms, Data Structures, Distributed Systems, Microservices, System Design