Osman Ali Chowdhury

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Technical Skills

Languages: GO, Python, Javascript, C/C++, SQL
Developer Tools: Git, Docker, Redis, ElasticSearch, MySQL, Postgres, Kafka, RabbitMQ

Experience

Principle Software Engineer
August 2024– Present

Grameenphone   *Augmented resource of BrainStation 23*

- Improved monitoring, code coverage pipelines, and tech debt policies, boosting overall system visibility and developer productivity.
- Optimized and scaled Card Service by reducing latency and memory usage through advanced SQLite tuning, smart caching, and concurrency-aware API redesign.
- Designed and launched CypherX, a high-throughput gRPC service for AES-based encryption/decryption, securing sensitive data exchange across MyGP microservices.
- Built fault-tolerant, high-performance features using Go, NestJS, Redis, RabbitMQ, and DragonflyDB to handle millions of user requests under peak load.
- Mentored engineers and drove cross-team alignment on architecture, code quality, and delivery speed.

Software Development Engineer - II
September 2021– July 2024

ShopUp   -

- Review and design engineering aspects of different product features
- Successfully migrated a critical Rails service to a gRPC architecture, enhancing performance, scalability, and inter-service communication efficiency through the adoption of event-driven communication
- Configured table partitioning using pg_partman PostgreSQL, significantly improving query response times and scalability for large daily data sets
- Implemented circuit breaker mechanism to minimize delays caused by failures in external service API calls for time-sensitive API requests
- Optimized latency from ~2000ms to ~200ms and scaled up throughput to 60 RPS for notification services. Also, reduce costs to 1/3 of the original expense via dynamic SMS provider configuration setup
- Prepared payment reconciliation dashboard to allow retailers to pay in multi-steps and keep those on track

Software Engineer
July 2021– September 2021

Evaly   -

- Provided a better Search experience for all Evaly products
- Lead the relevance-driven search project where search results will be based on the user's searching behavior
- Increased the percentage of a user landing on a desirable product from the front page of searched results up to 11%
- Introduced auto rollover group to keep the search index in shape
- Set up the batch processing pipeline with Redis stream for the bulk operation to limit the app server's memory footprint & concurrent call over search DB

Software Engineer
October 2019 – June 2021

NewsCred(now known as Optimizely)

- Launched a file server backed by Flask & AWS S3 service with the ability to render/upload files based on geolocation and impose access restrictions with smart URLs
- Implemented content synchronizer between microservices based on changes in one end using Celery worker
- Keep up and running the content ingestion pipeline with Python and other AWS services where content comes from various source feeds

Software Engineer
January 2019 – September 2019

KickBack Apps

- Built & provisioned the backend of *PhoneLine* and its admin panel with Golang, Redis & RabbitMQ
- Released an open-source Golang task processor *Cogman* powered by RabbitMQ, Redis & MongoDB

EDUCATION

North South University

Bsc in Computer Science   *Summer 2013 - Spring 2019/(Credit completed 128 out of 136)*

ACHIEVEMENT

Competitive Programming   January 2013 – August 2018

- Represented NSU in 20+ National level programming contests. 9th, 12th, 14th, and 16th was the best position among all the participated contests
- More than two thousand problems have been solved in different online judges like UVa, LightOj, Spoj, Codeforces, Codechef, HackerRank, and TopCoder.
- External problem creator at **HackerRank**. Prepared above 40 algorithmic & DS challenges for the different coding interviews and competitions.

PROJECTS

Eblot   github.com/kimbbakar/ebolt
- A bbolt wrapper with support of key expiry
- Tool: Golang

Yatt   github.com/kimbbakar/yatt
- A lightweight command line note-taking tool.
- Tool: Golang

Cogman   github.com/kimbbakar/Cogman
- An asynchronous task processor in Golang.
- Tools: Golang, RabbitMQ, Redis, MongoDB

BottleCap   github.com/kimbbakar/BottleCap
- Language Parser and Interpreter