MD SAMIUL ISLAM

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Skills

- Go | Python | C++ | C | Gin | Go-Chi | Django | Django-rest-framework | Django Elasticsearch DSL
- PostgreSQL | MySQL | Elasticsearch | MongoDB | Redis | Firebase | SQLite
- Docker | Serverless | Grafana | Git | Github Action | Kibana | Celery | Linux | CI/CD | Unit Testing | AWS | Azure
- Microservices | Distributed Systems | Backend | Cloud Computing | OOP | SOLID | Leadership

Experience

Software Engineer **Brain Station 23** *Dhaka, Bangladesh* **01/2021 - Current**

- Led the design and development of multiple enterprise-level microservice applications using the latest technologies of **Go**, **Gin**, **Mongo**, **Redis, PostgreSQL, Elasticsearch, Firebase**, and increased performance optimization **20%** by crafting optimized database queries.
- Designed and implemented scalable APIs and background workers for managing first- and third-party proprietary licenses using **python Django, AWS, Celery, Elasticserach** that serve millions of license requests daily. Achieved a **15%** reduction in costs through the implementation of caching.
- Led the development of several products, from identifying system requirements and partner dependencies to workload balancing, software implementation, engineering, testing, and configuring metrics, alarms, monitors, and dashboards.
- Enriched system metrics by integrating the platforms with telemetry; Identify, prioritize and execute tasks in the software development life cycle.
- Continuous Integration/Deployment Pipeline Integration, pull requests, code reviews, load/stress testing, unit/integration testing

Education

Bachelor of Science **BRAC University** *Dhaka, Bangladesh* **01/2017 - 06/2021**

- Major in Computer Science

Projects

- **Task Station Time Tracking Tool**(*Go, Gin, MongoDB, Redis, React*)**:** *Utilized* the fast and efficient Go language for the backend and MongoDB as a NoSQL database to develop an intuitive time-tracking software. It's a feature-rich software that generates comprehensive reports, providing valuable insights into team productivity and maximizing business efficiency and profitability.
- **URL Shortener Web App**(*Python, Django, PostgreSQL, Hashing Algorithms, JavaScript*)**:** *Built a secure URL shortener web app with advanced hashing techniques, using Django and Python. Seamless PostgreSQL integration enables efficient data storage and retrieval, and robust analytics capabilities provide valuable insights into link activity. Ideal for businesses and users seeking enhanced performance and productivity.*
- **Product Compliance Monitoring Software**(*Django-rest-framework, PostgreSQL, Elasticsearch, Amazon Open Search, Celery, Amazon Simple Queue Service, React*)**:** *Developed* a Django-rest-framework backend and React frontend software for comprehensive 360-degree monitoring of global regulations related to health, safety, and environment for various products, utilizing Elasticsearch for full-text search and PostgreSQL as the primary database.

Mentorship

- **PONDIT:** Coding Bootcamp Mentor responsible for mentoring and giving career advice to SWE students **(05/2022 - Current)**
- **Problem setter at Toph.co:** Responsible for developing challenging problems that tested contestants' skills and knowledge, demonstrating ability to create engaging and thought-provoking content.

Others

- **BRACU Intra University Programming Contest, Champion-2017, 2018**
- **IEEE Xtreme 13.0, 5th position(Country wide) - 2019**
- **UITS Inter-University Programming Contest, 8th position - 2019**