Basar Sohail Chowdhury

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Software engineer with experience in design and development of cloud native backend systems for large scale applications in healthcare, finance, gaming and data storage domain. Experience with architectural patterns for SaaS/distributed services. As a team lead, review the code and make design/architectural decisions.

Skills and Technologies

Languages/Scripting: Python, Java, Golang, JavaScript (basic)
Frameworks: Flask, Angular/React, Java Spring Boot, golang web frameworks
Tools/DB: Docker, Redis, Spark, Kafka, Hadoop, Elasticsearch, AWS stack, MySQL, MongoDB, Airflow, K8s
Skills: Domain driven design, Microservices , Designing/porting microservice services, Map Reduce, REST APIs, Linux, Cloud native solutions, DB optimizations, AWS stack
Course work: Statistics, Genome sequencing, Advance Algorithms, Machine Learning, Distributed computing

Education

1. Master of Science, *Bioinformatics,* (Northeastern University, Boston)   *May, 2020*
2. Bachelor Of Engineering, *Information Technology,* (University Of Pune, Pune)   *May, 2013*

Work Experience

Phil, Inc (Senior SDE / Healthcare SAAS**)**-   *California, USA Sep 2020 to Present*
- As a team lead, review and manage the team. Design/review the architecture for new services
- As a backend engineer implemented core services across all verticals and domains, refactoring old system
- Integrated external APIs (Truepill) for patient insurance, automated/optimized the insurance verification process. Improved SLA for processing up to 40% using claim automations.
- Creating POCs for new services, implementing them from scratch.(notification, inventory, medical API)
- Optimizations and performance improvement for scaling the platform around DB and load balancing based on the prescription profile.
- Lead the major client integrations and deliver the SLA on hard deadlines for stakeholders.
Technologies: *Golang, AngularJS, MongoDB, K8s/Containers, AirFlow, AWS EC2, AWS SNS/SQS,*

Verys (**SDE** / Royal Caribbean Group)   *California, USA June 2019 to Dec 2019*
- As a backend engineer, I contributed to the core system for the flight reservation system to be integrated with the cruise booking system. It was a new service to be implemented within the 6 months deadline.
- Implemented the flight search logic using Elasticsearch as primary search engine for real time flights
- Middleware components for processing of flight booking objects and creating adapters for cruise booking system, code cleanup and optimization by reducing/consolidating API calls
Technologies: *Java, Spring , AWS Services , MYSQL, ReactJS, Solr search, Elasticsearch*

Druva (**SDE** / Data backup and discovery / Unicorn Startup)   *India, Jan-2017 to Aug-2018*
- Migration of legacy system to cloud native service of 60 PB data using (AWS Glacier/ S3 / DynamoDB)
- Implemented cloudapps integration (Exchange mail/GDrive/Box) backup and restore APIs
- Created AWS cloud native services for compliance (HIPAA/PHI/Legal Hold) and post backup dedupe which improved the compression up to 10x, global dedupe strategy using S3/DynamoDB block hash
- Cloud services for parsing and syncing with block storage, creating snapshots and performance improvement

Achievements: Optimization of custom parser, reducing the data parsing job from 4 hrs to 30 mins
Technologies: *Python/Golang, Kubernetes, DynamoDB, Flask, AWS Cloud Services*

GSLabs (**SDE** / Chicago mercantile exchange)   *India, July-**2015** to Jan-2017*
 - Design and implement microservice at scale for the stream processing of finance data, primarily
 using Java spring boot. Lead the team with initial POC and set up the project with design and arch.
 - Cloud migration of the legacy service to spark for real time data processing(40k messages/sec)
 - Talking to clients and stakeholder, managing a team of 5 people and growing the project
 - Created a container based distributed scheduler for automated jobs. Used round robin strategy to
 schedule jobs, automate many manual processes for reporting, Saved hours human effort.
 Technologies: *Java, Spark, Redis, MongoDB, Linux, AWS EMR, EC2, S3, GIT*

Ubisoft (**SDET** / Gaming and Entertainment)   *India, July-**2013** to July-2015*
- Ubisoft connect is a platform for gamers. Contributed to the payment system and game store implementation.
- Improve the player experience for PC, Implement the third party integrations for the online game store
- Creating custom tools for the dev version of SonyPlayStation (PS4) and contributing to the game logging and
performance metrics for the game under test.
Technologies: *Python, Flask, C# .NET, window desktop forms, REST API*