Syed Tamzid

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University of Toronto
Bachelor of Applied Science in Engineering Science   **June 2016**

TECHNICAL SKILLS

- **Active Programming Languages:** Python, Scala, Bash, Go
- **Past Programming Languages:** Java, NodeJs, C, C++, Kotlin
- **Cloud Platform:** Amazon Web Services (AWS), Google Cloud Platform.
- **Databases:** Cassandra, Postgres, Redis, DynamoDB
- **Infrastructure as Code:** Terraform
- **Configuration Management:** Ansible, Helm
- **Containerization & Deployment Environments:** Docker, Kubernetes
- **CI/CD:** Jenkins, AWS Code Pipeline, GitHub Actions
- **Message Brokers/ Streaming:** Apache Kafka, RabbitMQ
- **Logging & Monitoring:** Prometheus, Grafana, Elasticsearch.

RELEVANT EXPERIENCE

Lotusflare Inc.   **Toronto, ON**
Senior Infrastructure Engineer   March 2020 – Present

- Domain expert for maintaining company's storage infrastructure that includes all the databases and platforms used for data storage and streaming such as clusters of Cassandra, Kafka, Redis etc.
- Maintain the storage infra (Terraform) for all clients and manage the configuration (Ansible and Helm) for relevant applications (mostly written in Scala and Lua) for both Kubernetes and non-Kubernetes (e.g., cloud virtual machines) environments and plan capacity management based on business needs per client basis
- Develop tools and automated services for zero downtime upgrade, node replacement, schema sync etc. and non-service/ application impacting maintenance and periodic backup of the data storage
- Research performance and optimization strategies for the storage layer techs and conduct scenario-based experiments to arrive at optimal configurations, examples include optimal JVM configuration for Cassandra (read vs write optimized use cases), picking suitable filesystem and disk types for Cassandra and Kafka etc.
- Implement security in transport (TLS) for applications accessing storage layer and oversee security access management (IAM) for tools and services
- Investigate driver code for SLA improvements, early fault detection for applications and explore newer technologies such as gRPC (HTTP/2) for improved data transport between apps and storage layer
- Provide on call and customer maintenance window support, incident investigation and postmortem analysis when required and ramp up colleagues on the persistence layer upon request

Bespoke Metrics Inc   **Toronto, ON**
Site Reliability Engineer   Feb 2019 – March 2020

- Lead engineer for all internal and external integration of the product to third party software and clients' internal systems and responsible for continuous delivery of related features and proof-of-concept prototypes.
- Designed, developed and delivered several product enhancements that include Real Time Notification Systems, CRM software integration (Salesforce), REST APIs, Third Party Marketplace Iframe Apps, Single Sign-On of external users (Okta) etc.
- Maintained the integration architecture, platform, related micro-services and containerized deployment environments on AWS while occasionally helping product team with implementing new features.
- Collaborated with client and partner engineering teams and also work closely with several cross-discipline teams within Bespoke as well as occasionally lead and mentor company interns.

RELEVANT EXPERIENCE

Coinsmart   **Toronto, ON**
Full-Stack Developer   Oct 2018 – Feb 2019
- Developed and continuously delivered new incremental features for the trading platform on a two-week sprint schedule.
- Designed, developed and deployed the platform for real time trade candle stick streaming and advanced trade features for the exchange that allows the clients to trade with limit and stop orders.
- Maintained the backend architecture for the platform, API, data storage and streaming micro-services that incorporate various tools such as Kafka, RabbitMQ, Docker, DynamoDB, Postgres etc.
- Built continuous deployment pipeline that includes GitHub, Jenkins, Amazon ECR and Amazon ECS.

Nextgen Blockchain Technologies   **Toronto, ON**
Software Engineer, CDx Project   March 2018- Sept 2018
- Developed the backend for a decentralized application on Ethereum blockchain that will govern a Credit Default Swap protocol for cryptocurrencies known as CDx.
- Lead the backend for company's first beta data streaming app that is capable of streaming live cryptocurrency data from several exchanges with real time analytics.
- The backbone of the streaming app was Kafka and all the related microservices were docker images that were deployed on Kubernetes for production and were well monitored using providers such as Grafana.
- Built development and production environment by implementing continuous integration practices.

Askuity Inc.   **Toronto, ON**
Backend Engineer   Sept 2015 – Feb 2018
- Responsible for maintenance and regular updates ETL pipeline of Point of Sale (POS) data acquisition agent from retailers and implement product architecture changes.
- Ongoing new features development that included Email POS data acquisition robot, internal REST APIs and deployment of Product model changes.
- Provided suggestions on Product model upgrades to the Senior Engineers based on interactions with Technical Consultants and research conducted from academic publications.
- Integrated and automated client data acquisition pipeline that maps raw POS data to internal Askuity formats from several retailers that includes Walmart, Home Depot, Lowe's, and Amazon etc

INDUSTRY ACADEMIA COLLABORATION

RBC Capital Markets   **Toronto, ON**
Multidisciplinary Capstone Project   Jun 2014 – Mar 2015
- University of Toronto final year undergraduate project with RBC Algorithmic Trading division that involved developing an algorithm that generates long-short signals for a daily rebalancing portfolio.
- Designed and implemented the data feed that collected data from Google Finance and big data file inputs at second intervals while filtering noisy data and converting them to the desired format.
- Created several functions in R for the algorithm development that implemented time series forecasting, mean-variance optimization, intraday correlation and risk-reward trade-off