

# Syed Tamzid

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## Education

- University of Toronto - Bachelor of Applied Science in Engineering Science, June 2016

## Technical Skills

- **Languages:** Python, Scala, Csharp, Bash, Go
- **Data Analysis/Modeling:** Matlab, R
- **Cloud Platforms:** AWS, Google Cloud Platform
- **Databases:** Cassandra, Postgres, MySQL, Redis, DynamoDB
- **Machine Learning/Analytics:** Scikit-learn, Numpy, Flower
- **Infrastructure as Code:** Pulumi, Terraform
- **Frontend:** React, Pyodide
- **Configuration Management:** Helm, Ansible
- **Containerization/Deployment:** Docker, Kubernetes
- **CI/CD:** GitHub Actions, Jenkins, AWS Code Pipeline
- **Message Brokers/Streaming:** Apache Kafka, RabbitMQ
- **Monitoring:** Prometheus, Grafana, Elasticsearch, Datadog

## Notifi - Senior Software Engineer (Data Science)

*San Francisco, CA (Remote) Mar 2023 - Present*

- Spearheaded feature development for data analytics products, introducing a new statistics dashboard that enhanced user experience and provided valuable business insights.
- Engineered efficient data pipelines by reducing processing time from hours to few minutes, delivering near real-time notification statistics for improved client insight
- Implemented service for periodic statistical analyses on extensive datasets, enabling precise insights and ensuring 100% billing accuracy for our customers.
- Maintained a robust infrastructure with Terraform, Kubernetes, Docker, and CI/CD pipelines, and established dynamic private environments for customer testing and deployment.

## People Data Labs Inc. - Senior Platform Engineer (Remote)

*San Francisco, CA (Remote), Aug 2022 - Dec 2022*

- Played a key role in migrating to a multi-account AWS setup with Pulumi, enhancing service deployment efficiency and operational robustness while reducing the overall deployment time by half.
- Implemented comprehensive audit logging for the infrastructure, achieving 100% coverage and fulfilling stringent infrastructure and security requirements.
- Refined and optimized CI/CD pipelines, facilitating efficient deployment and maintenance of internal tools, and significantly enhanced the deployment process of Tailscale VPN services for improved organizational network efficiency.

## Lotusflare Inc. - Senior Infrastructure Engineer (Persistence Layer Lead)

*Toronto, ON, March 2020 - Aug 2022*

- Lead a cross-functional team managing distributed data/storage systems (Cassandra, Kafka, RDS, Redis), optimizing for high availability and performance.
- Conducted extensive benchmark tests across Scala, Go, C, and Lua drivers, reducing average query times by 60% and consistently achieving an SLA of 200 ms.
- Engineered infrastructure automation tools and pipelines, achieving an 80% reduction in Cassandra and Kafka upgrade times, ensuring zero downtime across environments.
- Implemented robust monitoring and incident management strategies that eliminated production issues for Cassandra and Kafka, while meeting p99 latency requirements.

- Actively contributed to the migration and evolution of data infrastructure as code, transitioning from Terraform to Terragrunt format, significantly bolstering scalability and maintainability of our infrastructure deployment processes.

## **Bespoke Metrics Inc. - Site Reliability Engineer**

*Toronto, ON, Feb 2019 - March 2020*

- Directed end-to-end product integrations with third-party software and client internal systems, championing continuous feature delivery and proof-of-concept prototyping.
- Pioneered diverse product enhancements such as Real-Time Notification Systems, Salesforce integration, REST APIs, Marketplace IFrame Apps, and SSO with Okta, elevating product capabilities.
- Managed integration architecture and microservices on AWS, ensuring scalable containerized environments and contributing to the feature development with the product team.
- Enhanced collaborative efforts with client and partner engineering teams, liaised with internal groups, and mentored interns, strengthening the organizational talent pool.

## **Coinsmart - Full-Stack Developer**

*Toronto, ON, Oct 2018 - Feb 2019*

- Led the timely delivery of new trading platform features within two-week sprints, driving continuous innovation in a fast-paced, agile environment.
- Engineered a high-performance real-time trading feature set, including candlestick streaming and sophisticated order types, to enhance client trading strategies.
- Oversaw the backend architecture, ensuring seamless API functionality and efficient data management across the platform's microservices ecosystem.
- Developed a streamlined deployment pipeline, facilitating consistent and reliable software updates and service delivery to maintain competitive edge.

## **Nextgen Blockchain Technologies - Software Engineer, CDx Project**

*Toronto, ON, March 2018 - Sept 2018*

- Orchestrated the backend development of a groundbreaking decentralized app on the Ethereum blockchain, facilitating a novel Credit Default Swap protocol for cryptocurrencies.
- Directed the creation of the company's first beta data streaming application, enabling real-time streaming and analytics of live cryptocurrency market data.
- Constructed a resilient application infrastructure with Kafka, containerized via Docker, managed with Kubernetes, and monitored with Grafana, ensuring operational excellence.
- Pioneered the setup of CI/CD practices, significantly enhancing the development pipeline and deployment reliability for both development and production environments.

## **Askuity Inc. - Backend Engineer**

*Toronto, ON, Sept 2015 - Feb 2018*

- Administered and enhanced the ETL pipeline for POS data acquisition, ensuring consistent and accurate data capture and integration from retail partners.
- Pioneered the creation of new platform capabilities, including an automated Email POS data robot, development of internal REST APIs, and vital product model deployments.
- Advocated for product model advancements by providing research-backed recommendations to senior engineering personnel, enhancing product functionality.
- Orchestrated the automation of the data acquisition workflow, enabling precise mapping of raw POS data to the company's standard format for multiple high-profile clients.