

Shivam Taneja

Cloud Data Engineer

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Education

B.A.Sc. of Computer Science Co-op, McMaster University

Sept 2017 - Apr 2022

Undergraduate Coursework: Data Structures, Compilers, Software requirement, Computer Architecture, Algorithms and Complexity, Computational Theory, Discrete Mathematics, functional programming, Linear Programming.

Skills

Languages: Rust, JavaScript, Python, Spark, SQL, Shell Scripting, LaTeX, Django, HTML, CSS, NodeJS, Angular, NestJS, Terraform, Kubernetes, C#, TypeScript

Software: Microsoft Azure, Power Automate, Databricks, ELK stack (Elasticsearch, Kibana, Logstash), OpenShift Container Platform, Docker, Jenkins, IBM UrbanCode Deploy (UCD), Cloud Computing, AWS, Apache Airflow, Virtual Networks, JMeter, Postman, VirtualBox .

Professional Experience

Senior Cloud Data Engineer

June 2022 – Present

Royal Bank of Canada, Toronto

- Spearheaded the transformation of **Databricks into a platform-as-a-service** for internal clients, enabling Business Insights and Data Science teams to seamlessly use curated datasets and hosting of model serving endpoints.
- **Led and orchestrated Data-as-a-Service** initiative, automating data curation and delivery process for financial reports generation and analytics. Utilized PowerBI Virtual Data Gateway and Azure Databrick which reduced manual data handling and improved data accuracy.
- **Developed and implemented Terraform modules** and Jenkins pipelines to efficiently provision, configure, and integrate key Azure services providing secure and scalable data management solution.
- Streamlined Power BI visualization and dataset deployment by creating **an Angular and NestJS application**, with real-time Row Level Security implemented on Databricks-sourced data, this reduced report creation cycle from 4 weeks to just 4 hours, ensuring secure access to critical business insights for clients.
- Developed and optimized Apache Airflow and Databricks pipelines, **reducing data availability time from 24 hours to 20 minutes**.

Software Developer Co-op

Jan 2020 – Aug 2020

Royal bank of Canada, Toronto

- Designed Docker images for Logstash and Kibana on OpenShift, automating the ingestion of over 2 million daily records into an ELK stack while implementing **scalable Kubernetes services** and enhancing system efficiency and security.
- Automated the ingestion and **indexing of over 2 million daily** records using Django application hosted on OpenShift Container Platform (OCP) to an on-premise Elasticsearch.

Technical System Analyst Co-op

Sept 2019 – Dec 2019

Royal bank of Canada, Toronto

- Integrated new features, including an advanced email notification system and seamless DB2 and Oracle analytics integration, which enhanced security by detecting and addressing critical vulnerabilities that had previously allowed unauthorized administrative access to applications.
- Developed dynamic, modular ASP.NET and C# scripts and pages that streamlined database interactions, **reducing the application's footprint by over 50%** and improving overall system efficiency and maintainability.

Project Experience and Industry Involvement

- **MacMoney (2022)**. Developed an interactive web game that aims to teach students the four pillars of financial literacy using Reach as its framework.
- **P0 Language extension (2022)**: Extended P0 language with preconditions, postconditions, and Invariants using Python and WASM, maintaining performance while enhancing code robustness.
- **SafeParkingZone-Android app (2019)**. Using Kotlin and Google Maps API in Android Studio to design a navigation app for the city of Chicago to show the nearest and safest parking spots from the user's location.

Certification and Courses

- Red Hat OpenShift Administration I (DO180)
- Red Hat OpenShift Developer II (DO288)
- Databricks Generative AI Engineering with Databricks

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