Shivam Taneja

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Employment

Cloud Data Engineer – Royal bank of Canada **June 2022 – Present**

- Created Terraform modules and Jenkins workflows to facilitate the seamless provisioning, configuration, and integration of various Azure services. This included but was not limited to Azure SQL, Azure Databricks, Power BI capacity, SQL Data Warehouses, Azure Data Lake Storage Gen2, and Azure Key Vaults.
- Streamlined Power BI visualization and dataset deployment through the development of an embedded application, with real-time Row Level Security implemented on Databricks-sourced data. This reduced report creation time from 4 weeks to just 4 hours, enhancing data security for the clients.
- Enhanced data accessibility by developing automated data engineering pipelines using Apache Airflow and Databricks, reducing data availability from 24 hours to just 20 minutes. Implemented Azure Purview and Great Expectations to elevate data compliance accuracy and quality.
- Architected and orchestrated cloud infrastructure for an ETL pipeline in direct collaboration with the Head of Data Engineering and Governance

Developer (Agile Infrastructure) Co-op – Royal Bank of Canada **Jan 2020 – Aug 2020**

- Designed and developed Docker images for Logstash and Kibana, optimized for OpenShift Cloud platform, featuring integration with JFrog Artifactory and HashiCorp Vault. Utilized Kubernetes services and Load Balancer with Ingress for scalability.
- Automated the ingestion and indexing of over 2 million daily records through a Django API hosted on OpenShift Container Platform (OCP) to an on-premise ELK stack

Technical System Analyst Co-op – Royal Bank of Canada **Sept 2019 – Dec 2019**

- Developed new features including an emailing system, DB2, and Oracle analytics integration, and significantly enhanced security by identifying and rectifying security vulnerabilities that had allowed unauthorized admin access to application.
- Created Dynamic ASP.NET scripts and pages to accommodate several databases effectively reducing the size of the application by more than 50 percent.

Skills

Languages: Python, Spark, C++, Scala, Java, SQL, C, Bash Scripting, LaTeX, Django, Git, ASP.NET, HTML, CSS, JavaScript, MySQL, PHP, NodeJS, Angular.
Software: ELK stack (Elasticsearch, Kibana, Logstash), OpenShift Container Platform, Podman/Docker, Jenkins, IBM Urban Code Deploy (UCD), Azure SQL, Linux server, Kubernetes, AWS EC2, AWS Route53, Microsoft Azure, Terraform, Airflow, Databricks, Data Factory, Delta Lake.

Technical Experience

- **MacMoney** (2022). An interactive decision based web game that aims to teach students the four pillars of financial literacy. The web game uses React as its framework.
- **P0 Language extension** (2022): The project aimed to extend P0 language and add preconditions, postconditions, and Invariants without any loss of performance on these checks. The project uses python and WASM library.
- **SafeParkingZone-Android app** (2019). Using Java (Android Studio), designed a navigation app (google maps API) for the city of Chicago to show the nearest/safest (heat map) parking spots from the user's location.
- **TruPhase @BostonHack** (2018). Winner of Boston Hack's OneDB challenge that uses BOSE's API and python to record the speaker's output for any discrepancy by comparing the frequency with the predetermined database.

Education

B.A.Sc. of Computer Science Co-op - McMaster University **Sept 2017 - Apr 2022**

- Graduated in B.A.Sc. in Computer Science, Class of 2022. 3.4 GPA
- Some Undergraduate Coursework: Compilers, Software requirement, Computer Architecture, Algorithms and Complexity, Computational Theory, Discrete Mathematics, functional programming.

Additional Experience

- Red Hat OpenShift Development I: Containerizing Applications (DO288)
- Red Hat Introduction to OpenShift Applications (DO101)
- Red Hat OpenShift Development I: Containerizing Applications (DO288)
- Udemy Apache Airflow: The Hands-On Guide