Muhammad Furrukh Tanveer

EDUCATION

Toronto Metropolitan University (formerly Ryerson) | Bachelor of Science - Computer Science   Graduation 2025

SKILLS

Languages: Java, Python, JavaScript, Bash, SQL, HTML, CSS, GoLang
Tools: Jenkins, Openshift, Autosys, JIRA, Powershell, Batch, Docker, Postman, GitHub, GitLab, WordPress, BitBucket
Technologies: Spring Boot, OracleDB, MongoDB, React, Spring, Node.js, Express.js, SQL Developer, MySQL, PostgreSQL

EXPERIENCE

JUNIOR WEB DEVELOPER | Ontario Ministry of Treasury Board Secretariat   May 2023 - Aug 2023
- Formulated **10+** core **GoLang** REST APIs used through **Vue.js** using **SQLx** with prepared statements and structs to prevent multiple **SQL injection** vulnerabilities.
- Debugged across **30+ WordPress PHP** files by optimizing and creating plugins resolving critical bugs and user accessibility issues within the WordPress dashboard.
- Enhanced the user interface and accessibility through **Vue.js**, providing an accessible and engaging user experience reaching over **29 Ontario Ministries** and **100+** million site visits.

SOFTWARE ENGINEER INTERN | Loblaw Companies Limited   May 2022 - May 2023
- Adopted **AGILE/Scrum** processes using **JIRA** to complete stories across **3 cross-functional projects/teams.**
- Engineered **Spring Boot** and **Java** microservice which calculated GoldenGate replication latency to **Oracle** through **REST APIs** and **SQL** improving lag visibility by over **50%**.
- Designed large-scale Oracle data purging solution with Windows **batch scripts**, utilizing **Autosys** and **PowerShell** for failed transaction email alerts, boosting API and database performance by over **75%**.
- Developed **Python** script for **MySQL** and **Postgres** data replication to Oracle using REST APIs and efficient algorithms, achieving bulk inserts for thousands of records in less than **2 seconds**.
- Utilized **Oracle DB/SQL Developer** to compose complex **SQL** queries, subqueries and joins among tables/schemas.
- Built and deployed **Jenkins** and **Openshift CI/CD pipelines** for seamless software delivery across all environments.

COMPUTER PROGRAMMER TRAINEE CO-OP | Builder Lynx   Feb 2019 - Jun 2019
- Utilized an internal **cloud-based** system to execute **data loading** and configuration tasks to ensure client information is up-to-date and accurate with a data accuracy rate of **98%**.
- Communicated with clients via email to address errors or empty fields encountered during bulk data uploads, resulting in a **resolution rate of 95%** within 24 hours and maintaining an engaged client base.
- Performed extensive data review using multiple checks and validation techniques to ensure client data was uploaded correctly with an error rate of **less than 1%**.

PROJECTS

TOURIST BOOKING APP | Node.js, Express.js, PUG, MongoDB, Sass, Full-Stack
- Implemented **JWT** user authentication for enhanced security and authorization controls following web standards.
- Engineered a **RESTful API** in **Node.js** and **Express.js**, utilizing **Mongoose** Schemas to support **CRUD** operations on a MongoDB database, allowing users to sign up, view tours, book specific tours, and manage bookings.
- Integrated the **Stripe** payment gateway to facilitate secure and seamless payment processing for tour bookings.

FAMOUS QUOTES APP | Python, Flask, Vue.js, Bootstrap
- Developed backend using **Python** and **Flask** creating a scalable data retrieval model.
- Implemented web scraping techniques to extract data from Wikipedia's API and organize it into a constructable format.
- Utilized **Vue.js** for dynamic front-end rendering and **Bootstrap** for responsive UI design.