

# Furrukh Tanveer

416-358-3073 • muhammadfurrukh.tanv@torontomu.ca • linkedin.com/in/furrukhtanveer/ • github.com/furrukht10 • furrukhtanveer.net

## EDUCATION

Toronto Metropolitan University, [Bachelor of Computer Science](#)

Graduation: May 2025

Relevant Coursework: Artificial Intelligence, Data Structures, Algorithms, Data Science, Web Development, Databases, Operating Systems

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## SKILLS

**Languages:** Java, Python, JavaScript, C, C++, Bash, SQL, HTML, CSS, GoLang, PHP, TypeScript, Ruby, Elixir

**Tools:** Jenkins, Openshift, Autosys, JIRA, Powershell, Batch, Docker, Postman, GitHub, WordPress, BitBucket, Selenium, DataDog

**Technologies:** Spring Boot, Kubernetes, OracleDB, MongoDB, React, Flask, Vue, Angular, Node.js, Express.js, MySQL, PostgreSQL, GCP, AWS

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## WORK EXPERIENCE

**SOFTWARE DEVELOPER CO-OP**, [Ontario Ministry Of Treasury Board Secretariat](#)

May 2023 - August 2023

- Formulated **10+ GoLang** REST APIs for application backend using SQLx with prepared statements and structs to prevent **5+ SQL** injection vulnerabilities and decrease endpoint load times by **5%**.
- Debugged **30+ WordPress** PHP files and created custom PHP plugins that optimized MCV full-stack architecture and resolved **7+** bugs.
- Enhanced UI and web accessibility through **Vue.js** following **AODA** standards, providing an accessible UI reaching over **29 Ontario Ministries** and 100+ million site visits.

**SOFTWARE ENGINEER INTERN**, [Loblaw Companies Limited](#)

May 2022 - May 2023

- Adopted **Agile SDLC** with **JIRA** and **Scrum** for development and QA unit testing stories spanning **3 cross-functional** projects and teams.
- Engineered **Spring Boot** and **Java** microservice that calculated GoldenGate replication latency to **Oracle** through **REST APIs** and **SQL** to increase system latency visibility by over **40%**.
- Architected end-to-end Oracle data purging solution with **Windows batch** scripts, utilizing **Autosys** and **PowerShell** for failed transaction email alerts, improving query execution times by over **35%**.
- Developed **Python** script for **MySQL** and **Postgres** data replication to Oracle using REST APIs, efficient algorithms, and data structures, achieving bulk inserts for thousands of records in less than **2 seconds**.
- Leveraged SQL Developer to compose over **100** complex SQL queries, subqueries and joins among tables/schemas.
- Designed and deployed over **10 Jenkins** and **Openshift CI/CD pipelines** for **100%** continuous integrated delivery across all environments.

**DATA ANALYST CO-OP**, [Builder Lynx](#)

Feb 2019 - June 2019

- Operated an internal **cloud-based** system to analyze data to ensure real-time client information and a data accuracy rate of **99%**.
  - Accomplished vast data validation with field-level and pattern matching to ensure accurate data with an error rate of less than **1%**.
  - Coordinated with stakeholders to resolve data errors through data profiling, resulting in a quick resolution and a system uptime of **100%**.
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## PROJECTS

**MERN TOURIST BOOKING APP** | [Node.js](#), [Express.js](#), [PUG](#), [MongoDB](#), [Sass](#), [Full-Stack](#)

- Engineered a **RESTful** API in **Node.js** and **Express.js**, utilizing **Mongoose** Schemas to support **CRUD** operations.
- Implemented **JWT** authentication with **cybersecurity** and **network** rules for user security following modern web standards.
- 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** for creating a scalable ETL data retrieval model to parse over 1 million records.
- Implemented **web scraping** methods with DFS/BFS algorithms to analyze data and render less than 1-second response times.
- Utilized **Vue.js** for responsive front-end rendering, DOM manipulation, and **Bootstrap** for styling.

**FLIGHT RESERVATION SYSTEM** | [Java](#), [React](#)

- Implemented a full stack flight reservation system following an **object-oriented** programming paradigm including principles of inheritance, interfaces, polymorphism, encapsulation and Java methods.
- Rendered responsive front end in React.js using state management, props, and components integrated with Redux.