

Ryan Zhang

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www.github.com/Ryan-Zhang-J3 | [My Personal Website](#)

EDUCATION

McMaster University

Bachelor of Applied Science in Computer Science, Cumulative GPA: 3.7

Hamilton, ON

Graduation Expected: May 2026

EXPERIENCE

Software Developer

TELUS

May 2024 – Present

Toronto, ON

- Developed NodeJS microservices leveraged for a convergent mediation framework designed to work on Cloud, On-Prem, and at the Edge.
- Containerized and deployed applications to Kubernetes cluster on GCP using Docker, implementing Google OAuth 2.0 for user authentication.
- Lead implementation of Prometheus and Grafana, exposing metrics to create detailed dashboards and alerts to monitor KPIs and ensure cluster health.
- Created Redis Database to implement caching to allow sub 1 millisecond request times and duplicate detection using the Cache-Aside pattern.

Data and Automation Analyst

First Capital REIT

May 2023 – Aug. 2023

Toronto, ON

- Queried data using SQL, creating corresponding PowerBI visualizations.
- Developed website used to manage access roles of over 100+ users of company software using HTML/CSS and Javascript.
- Created Power Automate flow consolidating replication integrity of JDE production databases for increased availability and system resilience.
- Led fellow interns on CEO Capstone Project to address underutilized space in company portfolio.

Software Developer

Linkall Technologies

Apr. 2022 – Aug. 2022

Richmond Hill, ON

- Worked in Agile development team to create software solutions for clients using Python.
- Helped develop Python project triggered by Git pipeline to handle and validate .yaml files.
- Implemented CI/CD pipelines via GitLab for increased project deployment efficiency.

PROJECTS

Watch Activation App | ReactJS, SASS, Java, Webpack

Apr. 2024

- Engineered and stylized ReactJS and SASS front-end application for a seamless smartwatch activation experience, implementing Google Maps API with user localization.
- Developed back-end Java API to handle connectivity, billing, and updating user information.
- Bundled and built React application; set up development and build environments using Webpack.

Giftver | Python, HTML, CSS, Flask, PostgreSQL | Github | Video Demo

Dec. 2023

- Developed a web application using Flask allowing friends to easily run gift exchanges
- Implemented PostgreSQL database to handle processing of gift exchange participants
- Used Google's SMTP server to effectively connect Secret Santa participants.

Metamorphosis | MongoDB, ExpressJS, React, NodeJS | Github

Aug. 2023

- Developed social influence website focusing on self-development allowing users to blog about their journey
- Engineered REST API to handle request/response via HTTP protocol
- Implemented real-time data handling via MongoDB to manage user data

TECHNICAL SKILLS

Languages: Python, Javascript, HTML/CSS, Java, C, SQL (Postgres, SSMS, SQLite), SASS, Haskell

Technologies/Frameworks: NodeJS, ReactJS, Redis, Flask, ExpressJS, GCP, Azure, AWS, Prometheus, Grafana, Microsoft Power Platform

Developer Tools: Docker, Kubernetes, JIRA, Github, Gitlab