Ryan Zhang

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www.github.com/Ryan-Zhang-J3 | My Personal Website

EDUCATION

McMaster University — Hamilton, ON
Bachelor of Applied Science in Computer Science, Cumulative GPA: 3.7 — *Graduation Expected: May 2026*

EXPERIENCE

Data and Automation Analyst — May 2023 – Aug. 2023
First Capital REIT — *Toronto, ON*

Responsible for the creation, deployment, and maintenance of Robotic Process Automation flows to automate business processes. Developed applications used by system administrators to manage company resources. Queried and manipulated data for relevant PowerBI visualizations and business optimization.

- 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 — Apr. 2022 – Aug. 2022
Linkall Technologies — *Richmond Hill, ON*

Worked in development team to create software solutions for clients using Python. Utilised multiple technologies and programming languages to build continuously adapted projects satisfying business requirements.

- 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

Giftver | *Python, 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

Hocus Focus | *Python, OpenCV* | ⌂ Github — Jan. 2023
- Lead team of 4 members to create a program using Python and OpenCV for facial and motion detection, using real-time data to increase user productivity

TECHNICAL SKILLS

Languages: Python, Javascript, Java, C/C++, SQL (Postgres, SSMS, SQLite), Haskell
Technologies/Frameworks: React, NodeJS, Flask, JUnit, ExpressJS, Svelte, RPA, Micrsoft Power Platform
Project Management: : Agile, JIRA, Github, Gitlab, CI/CD

RELEVANT COURSEWORK

Data Structures and Algorithms, Web Development, Discrete Mathematics, Software Design Patterns, Linear Algebra, Databases, Computer Architecture