Ryan Zhang

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EDUCATION

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

EXPERIENCE

Applications Developer   May 2024 – Aug 2024
TELUS   *Toronto, ON*
- Developed and deployed NodeJS microservices to GKE leveraged for a convergent mediation framework designed to work on Cloud, On-Prem, and at the Edge.
- Lead implementation of Grafana, exposing metrics from Google BigQuery and Grafana 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.
- Developed, deployed, and tested Apache Airflow Cloud Composer DAGs using Python to successfully use SFTP to transfer on-prem files to GCS and GCS to BigQuery.

Data and Automation Analyst   May 2023 – Aug. 2023
First Capital REIT   *Toronto, ON*
- Queried data using SQL and created corresponding PowerBI dashboards to visualize company data.
- 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 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

DBAC Companion App | *React Native, NodeJS, Tailwind, JEST, NodeJS, GCP, GKE* | Github   Aug. 2024
- Outlined infrastructure diagram and setup Compute Engine, Google Cloud Storage, PostgreSQL DB, Firebase RTDB for development.
- Assigned tasks to team members and outlined key objectives for agile sprints to ensure product delivery on-time with required features.

Koodo Watch Activation App | Commercial Project | *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 RESTful 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, Apache Airflow, ExpressJS, GCP, Azure, AWS, PyTorch, Pandas, Prometheus, Grafana, Micrsoft Power Platform
Developer Tools: Docker, Kubernetes, JIRA, Github, Gitlab

CERTIFICATIONS

AWS Certified Solutions Architect Associate [AWS SAA-C03]   Jul. 2024