Royce Mathew

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Skills____

Languages Python, Java, JavaScript, SQL, Rust, Assembly, C++/C#/C, Lua

Technologies

Artifactory, Bash, Docker, Firebase, Flask, Google Cloud, Git, Jenkins, Linux, Maven, MsSQL, Numpy, OpenShift, Pandas, Postgres, PyTorch, Raspberry Pi, React, REST, SASS, Selenium, SSH, Tensorflow, UML, Vercel

Experience

Cloud Developer • RBC Royal Bank of Canada

Jan 2024 - Aug 2024

- Developed and managed an internal application using Next.js and TypeScript and Microsoft
 SQL to handle large scale batch reads, writes, and data views.
- Independently implemented authentication and role based access control using Microsoft Entra
 ID (Azure AD), dynamically linking user access to ServiceNow tickets for secure login workflows.
- Built a scalable cloud architecture, enabling horizontal auto-scaling, load balancing, and containerization using Docker and deployed on Red Hat OpenShift.
- Developed a robust CI/CD pipeline using Jenkins, integrating:
 - HashiCorp Vault for secure secrets management
 - SonarQube for continuous code quality analysis and static vulnerability scanning
 - Artifactory as a repository for managing versioned build artifacts and Docker images
 - Automated unit tests with Generative AI and deployment workflows to production

Teaching Assistant • Ontario Tech University

Sep 2023 - Dec 2024

- Offered individualized support to students through office hours, addressing their questions and concerns related to course content, assignments, and projects.
- Supported the integration of new technologies and tools into the course, such as cloud computing platforms and development environments, to enhance the learning experience.
- Mentored and guided students in their project work, helping them develop practical coding skills and complete software projects that demonstrate their understanding of course concepts.

Technical Operations Intern • Modern Deploy Technology

May 2023 - Sep 2023

- Developed a web application leveraging cloud storage, allowing users to effortlessly upload, manage, and access documentation securely with a secure authentication system.
- Created a responsive user interface using Svelte and TypeScript, ensuring an intuitive and dynamic user experience.
- Implemented Supabase, a Postgres database, along with Vercel, as a key component of the project, showcasing efficient data management and seamless integration.

Projects

r0yce.com/projects

Kanjou - Cloud Powered Collaborative Editor Firebase • NextJs • React • Typescript

- Kanjou is a real-time collaborative text editor built with Next.js and Firebase. featuring live document sharing, syntax highlighting, and auto-save. The tool has an array of features designed to enhance user experience and productivity.
- Seamless Integration for syntax highlighting for improved code readability, an automatic saving mechanism to prevent data loss, and a comprehensive suite of shortcuts to expedite workflow. Moreover, the platform facilitates real-time collaboration by allowing users to share documents and edit them concurrently.

Forex Trading Bot for Market Prediction Python • Pandas • NumPy • REST APIs

- Engineered a real-time trading bot that analyzes high frequency forex market data and generates trade recommendations through statistical analysis and pattern recognition.
- Currently integrating a machine learning model to enhance predictive performance using custom-engineered features derived from volatility, price action, and trend reversal signals.

Open Source API Wrapper

Rust • Asynchronous • Github Actions

- Asynchronous Rust API Wrapper for Roblox endpoints rust library that prioritizes memory safety and sends requests to web endpoints, while also allowing for cookie-based authorization.
- The wrapper seamlessly integrates users, groups, games and payment services into Rust-compatible formats with **descrialization** for easy access and manipulation. This wrapper was originally written to be implemented into my backend server running on RaspberryPi.

Education

Ontario Tech University

Sep 2021 - Dec 2025

Bachelors Of Science - Computer Science

- Dean's Honors List 2022
 President's Honors List 2022
- Data Structures and Algorithms, Computer Architecture, Computational Photography, Software Design and Analysis, Computational Science, Programming Languages, Software Systems Development and Integration