Royce Mathew

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Experience

Cloud Developer | Royal Bank of Canada (RBC) *January 2024 - August 2024*

- Developed an application with **React**, **TypeScript**, and **Microsoft SQL** used by **50+ developers** and compliance teams to track vulnerability scores for **15,000+ enterprise devices**.
- Integrated **Azure Entra ID** with **ServiceNow** ticket validation for secure, traceable access control.
- Built cloud infrastructure using **Docker** and **OpenShift** with automated horizontal scaling and load balancing.
- Optimized database performance by **reducing query time by ~30%** through caching and SQL optimization.
- Automated CI/CD with **Jenkins**, SonarQube, Checkmarx, and Artifactory. Implemented unit tests with Gen AI.

Teaching Assistant | Ontario Tech University *September 2023 - December 2024*

- **Mentored 100+ students** across 3 courses through advanced C++ concepts such as **pointers**, **memory management**, and data structures.
- Delivered individualized support, resolving technical challenges and fostering problem-solving skills, earning **90% positive feedback** in student evaluations.

Technical Operations Intern | Modern Deploy Technology *May 2023 - September 2023*

- Built a **document management application** using Svelte, TypeScript, and Supabase authentication, enabling secure access for **200+ users**. Implemented a Postgres Database to leverage cloud storage and store documents.
- Streamlined deployment processes, **reducing application deployment time by 40%** through optimized Vercel configurations.

Projects   r0yce.com/**projects**

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

- Developed a **real-time** collaborative text editor supporting **concurrent multi-user editing** with conflict resolution with React and Firebase.
- Implemented rich text editing with syntax highlighting for **20+** programming languages using Tiptap editor.
- Achieved **<100ms** latency for real-time document updates using **Firebase** onSnapshot listeners.
- Built custom middleware solution for Firebase adapter authentication in a serverless environment.

High-Frequency Forex Trading Bot Python • Pandas • NumPy • REST APIs

- Built a **data driven trading bot** that uses machine learning to **analyze high-frequency foreign exchange market data** and detects signals via custom indicators and pattern analysis.
- Developed logic for trend reversals, volatility breakouts, and price action anomalies, executing **500+ trades** monthly with **65% success rate** in simulations.

Education

University of Ontario Institute of Technology *September 2021 - December 2025*

Bachelor of Science (Honours) in Computer Science - 3.89 GPA

- **Dean's and President's Honors List** 2022 - 2025
- **Relevant Coursework:** Software Design & Integration, Algorithms & Data Structures, Web Design, Computational Photography, Programming Languages, Machine Learning, Compilers, Systems Programming

Skills

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

Frameworks & Tools: React, Next.js, Flask, Docker, Jenkins, Git, REST APIs, Svelte, Selenium, Bash

Cloud Platforms: Google Cloud, Microsoft Azure, Firebase, Red Hat OpenShift

DevOps & Security: HashiCorp Vault, SonarQube, Artifactory

Data & ML: PyTorch, TensorFlow, Scikit-Learn, Keras, Pandas, NumPy, PostgreSQL, MSSQL