

TYLER O'NEIL

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Experience

Exchange Solutions Inc.

Toronto, Ontario

Software Developer

May 2025 – Present

- Implement production-grade features across the loyalty platform's microservices ecosystem, focusing on AWS serverless architectures and scalable backend integration.
- Improve reliability and maintainability by writing unit tests, reviewing peer code, and enforcing development best practices.
- Collaborate with product owners and senior engineers to deliver performant, customer-focused enhancements in an agile environment.
- Optimize APIs and service logic to reduce latency, increase clarity, and support long-term platform scalability.

Software Developer Intern

May 2023 – August 2024

- Developed proof-of-concept Retrieval-Augmented Generation (RAG) agents using Node.js and OpenAI APIs, collaborating directly with the Director of Innovation Labs to accelerate early generative AI adoption within the company.
- Conducted rapid prototyping, technical research, and experimentation to evaluate feasibility and impact of emerging AI technologies for integration into the core loyalty product.
- Assisted engineering teams with debugging, small feature implementations, and refactoring tasks, strengthening foundational skills in TypeScript, cloud workflows, and agile development practices.

PresenTEC Solutions

Vaughan, Ontario

Front-End Developer Intern

December 2022 – April 2023

- Maintained and improved company website functionality using WordPress and custom development.
- Implemented UI improvements following company brand guidelines to ensure consistent user experience.

Projects – More information available on my Website [🔗](#)

Nest [🔗](#) – Typescript, Next.js, NextAuth.js, PostgreSQL, Prisma, Tailwind CSS, Stripe

- Designed and developed a minimalist investment tracker that provides users with personalized insights and projections for their portfolios, supporting multiple accounts and asset types.
- Implemented secure Google sign-in, account management, and authorization features to protect user privacy and ensure data integrity.
- Integrated subscription billing (Stripe) and direct brokerage connections (SnapTrade), enabling users to track investments manually or automatically with real-time data.

Duordle [🔗](#) – Typescript, React.js, Node.js, Express.js, MongoDB, Tailwind CSS, Docker, Jest

- Developed a multiplayer online word game where users collaboratively guess words, utilizing Socket.io for real-time communication between players.
- Containerized the application with Docker to enable streamlined deployment and seamless scalability.
- Implemented comprehensive unit testing using Jest to ensure code reliability and robustness throughout development.
- Set up a CI/CD pipeline and utilized Git for version control, streamlining the development workflow and enabling efficient project management while working independently.

Education

McMaster University

Hamilton, Ontario

Bachelor of Technology, Software Engineering Technology

Pursuing part-time while working full-time as a developer | VP of Projects, McMaster Open Source Society (MOSS)

Technical Skills

Languages: Javascript/TypeScript, Python, Java, C#, Bash, SQL, HTML, CSS

Technologies/Frameworks: Node.js, Express.js, React.js, Next.js, Tailwind CSS, Bootstrap, Jest, .NET, Spring Boot

Databases: MySQL, PostgreSQL, Oracle SQL, SQLite, Snowflake, MongoDB

Development Tools: AWS, Docker, Linux, Git, GitHub, Jenkins, Postman, Stripe, Jira, Bitbucket, Confluence