Ryan Tonucci

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Education

University of Waterloo — Waterloo, ON
Honours Bachelor of Computer Science — *Sept. 2023 – Present*

- **Relevant Coursework:** Object-Oriented Programming, Operating Systems, Data Structures & Algorithms, Introduction to AI, Computer Networks

Experience

Software Engineer Intern — May 2026 – Aug. 2026
Carta Inc — *Waterloo, ON*

- Migrated 70+ Python repositories from Poetry/pip to uv, cutting CI build times by 3x+ org-wide.
- Co-led company-wide migration of local development from Docker to bare-metal, at least doubling iteration speed.
- Refactored core backend monorepo: replaced legacy OAM tooling with hand-written Helm charts and migrated Bazel to Gradle with uv workspaces.
- In that same monorepo, eliminated manual Jenkins deploys by migrating to fully automated Argo CD deployments with Kargo.

Software Developer — Sept. 2025 – Dec. 2025
QBuild Corporation — *Markham, ON*

- Led development of a browser-based version of CADLink with ASP.NET Blazor WASM, helping drive it to 100k+ ARR across 12+ customers at launch.
- Integrated authentication and data sync with Azure AD, CAD platforms, and ERP systems via REST APIs.
- Automated invoice/expense processing with Azure AI services, saving 20+ hours/week while maintaining near-100% accuracy.
- Led the company's AI adoption initiative and migrated version control from legacy Visual SVN to Azure Repos, advancing an Azure DevOps CI/CD rollout.

Software Developer — Jan. 2025 – Apr. 2025
QBuild Corporation — *Markham, ON*

- Built core features of a full-stack CRM platform used by three companies, spanning customer management and reporting.
- Optimized a Kendo UI/Telerik, ASP.NET WebForms, and React frontend, cutting page load times 80% and lifting engagement 45%.
- Designed a 120+ table SQL Server database with stored procedures achieving sub-200ms queries on 10,000+ daily transactions.
- Resolved 30+ critical production issues, cutting downtime 60% and raising platform uptime to 99.8%.

Software Developer — May 2024 – Aug. 2024
Home Hardware Stores Ltd. — *St. Jacobs, ON (Hybrid)*

- Optimized a React Native mobile app, boosting rendering 30% and cutting memory use 40%.
- Integrated C# services with legacy enterprise systems for 5k+ daily users with complete data integrity.
- Automated nightly store inventory backups to Azure Blob Storage, replacing inconsistent manual backups with reliable, scheduled coverage.

Technical Skills

Languages: C#, Python, C++, Java, SQL
Frameworks & Libraries: .NET, Django, React, React Native
Databases: SQL Server, PostgreSQL
Tools & Platforms: GitHub, Forgejo (Gitea), Azure, AWS, ArgoCD, CircleCI, Kubernetes, Docker