Matthew Polischuck

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EDUCATION

University of Guelph — Guelph, ON
Bachelor of Computing in Computer Science, Minor in Statistics, GPA: 3.7 — *Sept. 2021 – Apr. 2026*

EXPERIENCE

Software Engineer Intern — January 2025 – Present
Arrow Machine & Fabrication Group — *Kitchener, ON*

- Designed and implemented backend services to ingest, validate, and standardize data from **6** disparate ERP systems using SQL, Node.js, and Python, consolidating financial data across all manufacturing sites.
- Built and deployed an internal web app integrating QuickBooks API via OAuth to transform cheque data into TD Bank-required CFP file formats used in fraud-prevention systems using Node.js, Express, and EJS.
- Served as the sole application developer for production systems used by **5+** internal users, owning authentication flows, third-party API integrations, data transformation logic, deployment, and ongoing support.
- Improved system reliability by implementing structured logging, error handling, and scheduled execution, reducing manual intervention by **85%** in production workflows.

Web Developer Intern — May 2023 – April 2024
Ontario Veterinary College — *Guelph, ON*

- Developed and shipped production React components integrated into a Drupal 10 platform, improving usability and consistency across a high-traffic university website used by **thousands** of students and staff.
- Collaborated with designers and backend developers to implement new features, debug issues, and deploy production updates, contributing stable, reliable frontend releases.
- Worked within an Agile team using Git-based workflows to deliver frontend features and bug fixes.

PROJECTS

Stocklore | *Node.js, Express.js, React, PostgreSQL* — January 2025 – Present

- Delivered production-ready features and resolved stability issues in a deployed web application with active users.
- Improved the user experience by stabilizing file upload flows, standardizing PDF generation formatting, and designing intuitive error-handling pages, ensuring consistent performance across user workflows.
- Maintained high-quality development practices through **GitHub workflows** (pull requests, peer code reviews, and issue tracking), fostering collaboration and maintaining a reliable customer-facing product.

YelpCamp | *Node.js, Express.js, EJS, MongoDB* — February 2024 – March 2024

- Built a full-stack application supporting **thousands** of campground listings and reviews with CRUD operations.
- Developed a robust **RESTful API** to manage user accounts, reviews, images, and campground data, ensuring **scalable and secure data persistence** with MongoDB.
- Implemented user authentication with hashed/salted passwords and integrated Mapbox for interactive geolocation of listings, enhancing security and usability.

SVG Molecule Viewer Website | *Python, C, SQLite, JavaScript* — January 2023 – May 2023

- Built an application that parses SDF files to render molecules in 3D with interactive manipulation along all axes.
- Managed server requests using Python and integrated a custom C library via SWIG for back-end operations.
- Created interactive SVG visualizations of molecules using matrix arithmetic, including comprehensive CRUD support for editing and management of individual atoms within molecules, using SQLite to store data.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL, C, HTML/CSS
Frameworks & Libraries: Node.js, Express.js, React, Next.js
Databases: PostgreSQL, MongoDB, SQLite
Tools & Platforms: Git, Jira, Docker, SQL Server Management Studio (SSMS), Make