

<b>WORK EXPERIENCE</b>	<b>Jan. 2014 - Current</b>	<b>Brock Solutions - Transportation &amp; Logistics Group - Software Engineer</b> <ul style="list-style-type: none"><li>• Created multilevel (national/airport/area) dashboards showing real time graphs, trend indicators, goal performance and active alarms.</li><li>• Prototyped the initial front-end design to explore the use of React.js and D3.js libraries.</li><li>• Developed server side code to clean and aggregate time series data before sending it to the front end for graphing and tabular display.</li><li>• Created predictive analytics feature to show current, historical, predicted performance using historical data.</li><li>• Built a bag search feature allowing ad-hoc queries using multiple criteria such as: bag properties, presence at locations during time ranges, and performance characteristics.</li><li>• Presented at company summit on effective code reviews.</li><li>• Mentored new developers on refactoring code and improving code quality.</li></ul>
	<b>Sept. 2012 - Jan. 2014</b>	<b>Brock Solutions - Corporate Group - Software Engineer</b> <ul style="list-style-type: none"><li>• Architected the back-end of a greenfield web based accounting system integration using modern software practices that replaced a 10-year-old legacy system.</li><li>• Validated the new system against the legacy system using automated integration tests using historical data to fix business logic and data import problems before going live.</li><li>• Developed security layer to provide fine grained control of editing and viewing data.</li><li>• Optimised performance by adding application level caching and database indexes.</li><li>• Developed senior management reports, accounting reports, project forecasting and the back-end for timesheet and expense entry features.</li><li>• Created validation jobs to monitor ERP system tables for business rule violations.</li><li>• Provided support during go live for ~400 employees across Canada and the USA.</li><li>• Trained and provided ongoing guidance to the maintenance team after go live.</li></ul>
	<b>Dec. 2010 - Sept. 2012</b>	<b>Brock Solutions - Manufacturing Group - MES Solutions Developer</b> <ul style="list-style-type: none"><li>• Implemented a tracking and tracing system that used real time plant events to maintain a live view of inventory levels and records material traceability for FDA compliance.</li><li>• Created ETLs and queries to offload ~75 reports to a de-normalized reporting database.</li><li>• Optimized report performance by adding database indexes, setting up maintenance plans and scheduling offline report processing for long running reports.</li><li>• Developed inventory management screens for mobile barcode scanners.</li></ul>
	<b>May 2004 - Sept. 2009</b>	<b>C-Vision Limited - Electronics Manufacturing Engineer</b> <ul style="list-style-type: none"><li>• Led a 5-person new product integration team to develop a manufacturing process for ~150 new assemblies per year.</li><li>• Redesigned the new product introduction process using lean manufacturing principles and Kanban to promote transparency and improve on-time delivery.</li><li>• Created and helped implement a company wide lead free manufacturing transition plan.</li><li>• Investigated the root causes of quality problems, test failures, and customer returns.</li><li>• Assisted customers by performing design for manufacturability reviews on designs.</li></ul>
<b>TECHNICAL EXPERIENCE</b>	<b>Front End</b>	JavaScript, HTML, CSS, D3.js, React.js, Backbone.js, REST, Webpack, Bootstrap,
	<b>Back End</b>	C#, SQL, MS SQL Server, Entity Framework, ASP.NET MVC/WebAPI, C, C++, Python, MongoDB
	<b>Tools</b>	Source Control (Perforce, Git), Code Review (Review Board), Automated Testing (MSTest/Tape), IDE (Visual Studio, WebStorm, Vim), Profiler (Chrome, SQL, VS)
<b>EDUCATION</b>	<b>Degree</b>	BEng. Electrical Engineering (Computer Stream) from Dalhousie University (2004)
	<b>Continuing Education</b>	Algorithms: Design and Analysis, Part 2 (2015), Heterogeneous Parallel Programming (2014), Pattern-Oriented Software Architectures for Concurrent and Networked Software (2013), MongoDB for Developers (2013), CID+ Certification (2008)
<b>ACTIVITIES</b>	<b>Volunteering</b>	Rotary Club of Waterloo
	<b>Practice</b>	Engaging in purposeful practice with small code problems and side projects on GitHub.