

# Kevin Cox

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## Skills

### Languages

JavaScript, TypeScript, Python, Java, C++, C#, SQL, HTML, CSS

### Technologies/Frameworks

Node.js, React, Angular, Vue, WebDriver.IO, Chai, Mocha, Jest, Linux, Git, Jenkins CI/CD Pipelines, AWS, Azure, Docker, Kubernetes, NGINX, SQL Server, Postgres, MongoDB, Redis

## Work Experience

### Software Development Engineer Intern

Amazon – Toronto, ON

May-Aug 2022

### Cloud Security DevOps Co-op

Royal Bank of Canada – Toronto, ON / Remote

May-Aug 2021

- Mitigated risk in company-wide AWS cloud environments through identifying security risks in AWS service configurations
- Engineered Python based event-driven, AWS lambda functions using Amazon CDK & RDK to audit provisioned resources
- Developed monitoring systems which interfaced with the above lambda functions to modify and re-provision specific CloudFormation resources in live environments

### Full Stack Software Engineer Co-op

Manulife Financial – Waterloo, ON / Remote

Jan-Aug 2020

- Confidently lead a team of co-ops and provided solution architectural guidance for new and existing projects
- Interfaced with a plethora of internal and external REST/SOAP APIs to eliminate all manual effort required for operation (Microsoft Graph, Survey Monkey, Planview)
- Worked collaboratively alongside team members in all aspects of the solution, from database design to incorporating UI/UX methodologies, to create robust containerized MERN stack and C# applications

### Full Stack Software Engineer Co-op

Manulife Financial – Waterloo, ON / Remote

Jan-April 2018 | Sept-Dec 2018 | May-Aug 2019

- Passionately developed significant architectural additions for front-facing advisor systems using JavaScript, Java, and SQL Server, later hosted within onsite Linux environments
- Scalability of the architectural additions was verified through the engineering of stress-testing scripts using Node.js and a Selenium-based testing suite. Additions surpassed requirements, handling thousands of concurrent queries

## Projects

<b>Spotify Music Visualizer</b>	<ul style="list-style-type: none"><li>• MERN Stack application which interacted with Spotify to synchronize music with LED strips through the Spotify Playback API</li><li>• Integrated the Spotify Audio Analysis API to perform musical analysis of a song later visualizing this data on 480 LEDs using a self-developed PCB</li></ul>	<a href="https://git.io/JGfmQ">git.io/JGfmQ</a>
<b>Maze Builder &amp; Solver</b>	<ul style="list-style-type: none"><li>• React &amp; JavaScript ES6 based project encapsulating graph theory concepts</li><li>• State managed through MobX alongside a modern Material-UI design</li></ul>	<a href="https://maze.kevinscode.ca">maze.kevinscode.ca</a>
<b>Remote Threaded Grep</b>	<ul style="list-style-type: none"><li>• Recreation of recursive keyword search utility with amplified performance through custom Win32 &amp; standard C++ thread pool systems</li><li>• Engineered remote functionality through Win32 &amp; ASIO sockets implementing a client/server software pattern</li></ul>	<a href="https://git.io/JGFYY">git.io/JGFYY</a>

## Education

University of Western Ontario Honours BSc, Computer Science Dean's Honour Roll Fourth Year Student - Cumulative Average 85%	2020-2022	Fanshawe College OCAD, Computer Programmer Analyst Dean's Honour Roll Cumulative 4.1 /4.2 GPA	2016-2019
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