Kevin Cox

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Skills

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

Technologies/Frameworks
Node.js, Angular, React, Vue, WebDriver.IO, Chai, Mocha, Selenium, Linux/Unix, Git, Jenkins CI/CD Pipelines, AWS, Azure, Docker, NGINX, Redis, SQL Server, MongoDB, Oracle DB

Experience

Fullstack Software Engineer Co-op — Jan-Aug 2020
Manulife Financial – Waterloo, Ontario / Remote

- Confidently lead a team of co-ops and provided solution architectural guidance for new and existing projects which were managed using Agile methodology and tracked with Atlassian's JIRA
- Interfaced with a plethora of internal and external REST/SOAP API's 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
- Drastically increased performance of existing applications by thoroughly analyzing and then improving network activity, code structure and the pipeline process

Fullstack Software Engineer Co-op — May-Aug 2019
Manulife Financial – Waterloo, Ontario / Remote

- Passionately developed a large architectural addition for an existing front-facing advisor system using JavaScript, Java and SQL Server to be run in a Linux/Unix environment
- Engineered dynamic stress-testing scripts using Node.js and the headless Selenium Automation framework for the application above in test. Advisor system addition surpassed requirements and was able to handle thousands of concurrent queries
- The above addition was managed using Agile methodology and tracked with Atlassian's JIRA

Application Developer Co-op — Jan-April & Sept-Dec 2018
Manulife Financial – Waterloo, Ontario

- Updated existing OLT systems, mainframe programs and business utilities using Java, JavaScript, SQL, COBOL & JCL
- Integrated a mass code review application (Sonar) with source control to run in a Linux environment weekly
- Collaboratively designed many products and was named victor of the Fall 2018 & Winter 2018 Manulife Innovation Challenges

Projects

Spotify Music Visualizer – PWA:
- A local Spotify music raspberry pi webserver that utilizes the Spotify Playback API to play music on IOT devices built on top of the MERN stack
- Utilizes the Spotify Audio Analysis API to GET a detailed analysis of a song and visualizes this data on 480 LEDs using a custom printed PCB designed by myself

Chat App - PWA:
- Simple room-based chat application utilizing the MERN stack (MongoDB, Express, React, Node.js) alongside the Socket.io WebSocket library

MVC Framework:
- Design Patterns inspired C++ custom framework utilizing the Observer, Command and Singleton software design pattern
- After developing this framework, it was utilized to create a MS paint clone and the classical Japanese strategy board game, Gomoku

Remote Threaded Grep:
- Recreation of common recursive keyword search utility but with amplified performance by creating custom Win32 & standard C++ thread pool systems
- Designed both a client and server application with interprocess communications being managed by Win32 & ASIO sockets

Education

University of Western Ontario — 2020-2022 (Exp)
Honors BSc, Computer Science
Third Year Student - Average 90.25 %

Fanshawe College — 2016- Dec 2019
OCAD, Computer Programmer Analyst
Dean's Honour Roll
Cumulative 4.1 /4.2 GPA