Kevin Cox

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Skills

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

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

Work Experience

Cloud Security DevOps Co-op May-Aug 2021
Royal Bank of Canada – Toronto, Ontario / Remote

- Mitigated risk in company-wide AWS cloud environments through the identification and development of python-based infrastructure-as-code preventive and detective AWS lambda function controls
- Preventive controls audited requested resources and its accompanying AWS CloudFormation resource structure
- Detective controls periodically analyzed provisioned resources through python boto3 libraries and Amazon CDK

Full Stack 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

Full Stack Software Engineer Co-op Jan-April 2018 | Sept-Dec 2018 | May-Aug 2019
Manulife Financial – Waterloo, Ontario / Remote

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

Projects

Spotify Music Visualizer git.io/JGfmQ
- MERN Stack application which interacted with Spotify to synchronize music with LED strips through the Spotify Playback API
- 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

Maze Builder & Solver maze.kevinscode.ca
- React & JavaScript ES6 based project encapsulating graph theory concepts
- State managed through MobX alongside a modern Material-UI design

Chat App – PWA git.io/JGfYU
- Room-based text-based chat application built on the MERN stack (MongoDB, Express, React, Node.js) alongside Socket.io WebSocket library

Remote Threaded Grep git.io/JGfYY
- Recreation of recursive keyword search utility with amplified performance through custom Win32 & standard C++ thread pool systems
- Engineered remote functionality through Win32 & ASIO sockets implementing a client/server software pattern

Education

University of Western Ontario 2020-2022
Honours BSc, Computer Science
Dean's Honour Roll
Fourth Year Student - Cumulative Average 85%

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