Kevin Cox

226-919-7485 | kevin.cox.work@gmail.com | kevinscode.ca

Skills

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

Technologies/Frameworks
AWS, Docker, Kubernetes, React, Node.js, Linux, Git, Jenkins
JUnit, Puppeteer, Selenium, Chai, Mocha, Jest,
SQL Server, DynamoDB, Postgres, MongoDB, Redis

Work Experience

Software Development Engineer Jan 2023-Present
Amazon – Toronto, ON / Remote

Software Development Engineer Intern May-Aug 2022
Amazon – Toronto, ON / Remote

- Architected Java & AWS CDK-based backend system utilizing AWS services such as API Gateway, SQS, SNS, DynamoDB and Lambda to enable asynchronous request fulfillment to existing synchronous systems
- The proposed system mitigated risk in the existing system's downtime by caching requests which later enabled periodic retries and manual reissuing upon system recovery
- Maintained high code quality and security through unit, integration, and end-to-end tests supported by JUnit & TestNG, resulting in a project-specific code coverage of > 98%.

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

- 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 to alarm and re-provision non-compliant resources in live environments

Full Stack Software Engineer Co-op Jan-April & Sept-Dec 2018 | May-Aug 2019 | Jan-Aug 2020
Manulife Financial – Waterloo, ON / Remote

- Passionately developed significant architectural additions for front-facing advisor systems using JavaScript, Java Websphere, and SQL Server, later hosted on on-premises Linux environments

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

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- Dec. 2022 (Exp.)
Honours BSc, Spec. Computer Science
Dean's Honour Roll
Fourth Year Student - Cumulative Average 88%

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