

## SKILLS

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**Languages:** JavaScript/TypeScript, Java, Python, HTML, Sass, C++, C#, C, SQL, MATLAB

**Frameworks/Tools:** React, Redux, Node.js, Django, Spring Boot, React Native, Android Studio, MySQL, MongoDB

## PROFESSIONAL EXPERIENCE

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### Software Development Engineer | Amazon

Vancouver, BC | May – Aug 2022

- Designed and implemented a web page to allow corporate Amazon Gift Card clients to view their transaction volumes and troubleshoot their failed API requests, empowering them to solve issues without contacting support
- Constructed a production-ready **React** application, **Spring Boot** APIs, and **AWS Lambdas** to query a **PostgreSQL** database, aggregate data and display informative visualizations to the client

### Software Engineering Intern | Lifion by ADP

New York, NY | Jan – April 2021

- Created a Chrome extension that profiles the performance of Lifion's React web pages and generates an interactive visualization for identifying bottlenecks in the page load, enabling performance improvements for users
- Used vanilla **JavaScript**, advanced **CSS**, and **HTML** to design and develop a highly interactive data visualization UI
- Led log reviews and spearheaded changes to the team's processes, improving the detection of defects in production

### Full Stack Developer | IBM

Ottawa, ON | May – Aug 2021

- Developed a web app used by 26,000+ IT specialists to manage their instances of QRadar, a Security Information and Event Management (SIEM) system, using **React**, **Redux**, **JS**, **Sass**, **Node.js**, **SQLite**, and **TingoDB**
- Created **React** components and APIs in **Node.js** to support the searching, filtering, and viewing of cybersecurity data
- Independently designed and implemented a new feature allowing clients to export a zip file with an interactive **HTML** report displaying visualizations of their SIEM data for offline viewing

### Software Engineering Intern | Ford Motor Company

Ottawa, ON | Sept – Dec 2020

- As the person second-most experienced with the code base, I brought forward major design decisions and implemented critical new features while increasing code stability and maintainability
- Completely redesigned the team's API to allow for request status callbacks and a more efficient requesting workflow
- Expanded unit test coverage by 25% using **gtest** and **gmock** frameworks in my first two weeks

### Software Engineering Intern | Ford Motor Company

Ottawa, ON | Jan – Apr 2020

- Produced large-scale, thread-safe and performance-oriented software using **C++** to manage data from Controller Area Networks (**CAN**) across three Electronic Control Units (ECUs)
- Used **VS Code** and **Momentics** to develop cross-platform code to run on **Linux** and **QNX** embedded systems
- Delivered debugging tool to enable CAN messaging and resource state querying and state requests during testing

### Software Developer | Big River Technologies Inc.

Gananoque, ON | May – Aug 2019

- Designed and built a **MySQL** database to improve tracking of employee provisioning and access management
- Used **React** and **CSS** to implement new features and defect fixes to support the development of a client web app
- Developed coding best practice and company standards documentation

## RELEVANT PROJECTS

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### Watopoly | Available on the Google Play Store ▶

- Built a native Android (**Java**), feature complete, multiplayer UWaterloo-themed version of Monopoly using advanced software design patterns and architectural styles

### ML Spotify Playlist Generator | Hack the North 2021

- Built a **React** web app with a **Django** backend that generates a tailored Spotify playlist based on the user's saved songs and inputted keywords

## EDUCATION

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### Candidate for a BAsC. in Biomedical Engineering, Computing Option

Sept 2018 – April 2023

University of Waterloo, Dean's List – Ranked 8<sup>th</sup> in Program

**90%** Avg, **3.85/4** GPA

Relevant Courses: *Software Design and Architecture, Data Structures and Algorithms, Computer Networks, Programming for Performance and hundreds of hours of self-learning through online programming courses*