

Certified Associate

Java SE 8 Programmer

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Skills

Programming Java, JavaScript, Typescript, Go, OOP, HTML5, CSS

Frontend React, React Native, Material-UI, Redux, Redux-Saga, Recoil **Backend** Spring Boot, Apache Kafka, Hibernate ORM, PostgreSQL, Docker

Tools Git, Maven, Cypress, Linux command line, Postman, Elastic Kibana, Grafana

Work Experience _____

BlackBerry Waterloo, ON

SOFTWARE DEVELOPER STUDENT

May. 2022 - Aug. 2022

- Implemented Java Spring Boot CRUD APIs and Kafka producers/consumers for Docker microservices with Hibernate.
- Developed CRUD API front-end for the React BlackBerry endpoint management console with Typescript, Material-UI and Redux-Saga.
- Validated data constraint specifications by programming PostgreSQL trigger functions and SQL schema.
- Profiled and reduced microservice memory allocation by closing an iterator leak and refactoring KStream operations, resulting in a 32% reduction
 per million handled Kafka messages.
- Improved microservice code coverage by composing Mockito, JUnit and Docker Testcontainer tests.

BlackBerry Waterloo, ON

SOFTWARE DEVELOPER STUDENT

Sept. 2021 - Dec. 2021

- Worked with a microservice architecture to implement performant features using Java Spring Boot, Hibernate and Kafka streams.
- Implemented front-end React components with Typescript, Material-UI and Apollo Queries.
- Improved React performance of large tree datasets by integrating react-virtualized-trees, resulting in a 10X render time speed-up.
- Composed automated Typescript Cypress tests as part of Gitlab CI to improve software reliability.

MentumQR Toronto, ON

SOFTWARE ENGINEERING INTERN

Jan. 2021 - Apr. 2021

- Programmed a real-time WebSocket order status page and menu editor using **React**, **Typescript** and **Redux** with **Typescript Cypress** tests.
- Implemented caching for backend by deserializing pre-determined data from Amazon S3, resulting in a 3.5X speedup in response time.
- Programmed Doordash integration webhooks with Go and PostgreSQL, where the integration handled 400 orders weekly and \$10,000 in sales.
- Developed interactive kiosk screens using Typescript, React Native, React Query and Recoil from Figma prototypes.

Bridgespace Toronto, ON

FULLSTACK SOFTWARE DEVELOPER

Jul. 2020 - Aug. 2020

- Programmed and documented an AWS Lambda function with Node. js to collect Mailchimp audience fields data on user signup.
- Implemented frontend pages from Figma prototypes using Bootstrap, JQuery, HTML5 and CSS.
- Worked with team to integrate AWS Cognito and SES with backend using AWS PHP SDK.

Projects _

SemesterShare.com - time table social platform

2018

• Programmed backend RESTful API with Java, Spring Boot, Hibernate ORM and MySQL, with frontend using JavaScript and Bootstrap.

EquationSpace.com - real-time collaborative graphing calculator

2019

• Developed backend with **Node.js** and hosted it on **Firebase Functions** with a serverless architecture.

Distinctions _

- 2020 Oracle Certified Java Programmer (Passed with 95%)
- 2019 picoCTF Cybersecurity Competition (Top 4.53%)

Education _____

University of Waterloo Waterloo, ON

CANDIDATE FOR BACHELOR OF APPLIED SCIENCE IN HONOURS COMPUTER ENGINEERING, CO-OP