

# Emma Jonas

## Software Engineer

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## Experience

**Bolt** Toronto, ON

Software Engineer Intern May 2021 – May 2022

- Work in an Agile and collaborative environment on the Merchant Tools team; use React and Typescript to develop frontend UI components, Go to develop backend APIs using REST and GraphQL, and SQL to make PostgreSQL database changes
- Implemented checkout setting previews, allowing merchants to customize and preview changes to the checkout modal in real-time
- Created an AWS QuickSight dashboard using data in Athena and Redshift to track and visualize feature usage
- Integrated different product add-ons in checkout, such as Route Shipping Insurance, for BigCommerce and Magento2 merchants
- Added self-serve login token regeneration, allowing users to resend a new verification token without needing to contact Bolt admin
- Wrote quality unit tests for each new feature using Mocha and Ginkgo to ensure code correctness

**IBM** Toronto, ON

Software Developer Intern May 2020 – Aug 2020

- Worked in an Agile and collaborative environment on the Cognos Analytics Mobile team
- Used React Native, Typescript, and Node.js to develop both frontend and backend components for the GA release of the iOS app
- Implemented a critical, time-sensitive security feature, Jailbreak detection, based on feedback from a penetration test
- Added Voiceover support to enhance accessibility throughout the application
- Created quality unit tests using Jest and Node Tap to ensure code correctness

## Projects

**CheckIn – 2<sup>nd</sup> Place, Lassonde Games 2021** Feb 2021

React Native, Node.js, Express.js, MongoDB

- Aims to improve the mental health communication amongst the senior population in long-term care facilities
- Provides a simple UI/UX for seniors of all abilities to easily log their daily feelings. Nurses can then ideally check on their patients' mental health trends, making it simpler to decide how to best allocate their limited time

**Fridge Sensor** Nov 2017

C++, Arduino, Adafruit.io

- Built a simple circuit using an LED light, a temperature sensor, and an Adafruit Feather M0 Wi-Fi
- Wrote a program to detect and notify if the fridge has gone above or below the ideal temperature conditions. If the temperature in the fridge is too warm, the LED light flashes; if it is too cold, the LED displays a solid light. It connects to Adafruit.io and displays a graph that tracks the change in temperature every 2 seconds

## Education

**York University – Lassonde School of Engineering** Toronto, ON

Honours Bachelor of Science in Computer Science – GPA: 8.09 / 9.0 Sep 2018 – Apr 2022

## Achievements

**Captain of the York University Women's Basketball Team** – Play 22 regular season games each year 2018 – 2022

**USPORTS Academic All-Canadian** – Awarded to varsity student-athletes who maintain a 7.5 GPA or higher 2018 – 2022

**PAWS Mentor** – Mentor for first-year student-athletes to help ease the transition from high school to university 2019 – 2022

**Sport Council Representative** – Take part in organizing various varsity sport initiatives and fundraisers for charity 2019 – 2022

**2<sup>nd</sup> Place in the 2021 Lassonde Games Tri-Hackathon** – Programming, Prototyping and Design 2021

**Dean's List Honour Roll** – Lassonde School of Engineering, maintain an 8.0 GPA or higher 2018 – 2021

## Skills

**Languages** – Java, C, Go, HTML, CSS, JavaScript, TypeScript, React, React Native, Shell Script, SQL, MATLAB, R

**Technologies** – Mac OS X, Linux/Unix, Git, Apache Hadoop, Apache Spark, PostgreSQL, Microsoft Office, Adobe Creative Suite