

# Jason Song

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## EDUCATION

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### University of British Columbia

*Bachelor of Applied Science, Computer Engineering*

Vancouver, BC, Canada

*Aug. 2018 – May 2023*

## EXPERIENCE

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### Software Engineer Intern

*IBM*

Jan 2021 – Present

*Markham, ON, Canada*

- Maintained and developed micro-services built with Elixir/Phoenix, Django, and Node.js.
- Managed, updated, and improved deployment pods/resources using Docker, Kubernetes, and HELM Charts.
- Built front-end features on Ruby on Rails, using Slim HTML, JavaScript, HTML/CSS, Alpine.js.
- Built scripts for automation and tasks using Python and Bash.
- Built and test python package and released it on PyPi.
- Documented designs and work done by the team.
- Participated in Agile Development including SCRUM meetings, and Code Reviews

### Coding Tutor

*Private/Self-Employed*

Oct 2020 – Jan 2021

*Vancouver, BC, Canada*

- Teaching a student with zero prior experience with Code. Covering fundamental building blocks of code such as if else statements, for while loops, functions, data structures and algorithms.

## PROJECTS

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### Securify | *Java, Android, Node.js, MongoDB, REST API, FPGA, GitHub*

Jan 2021 – April 2021

- Using Machine Learning technology, identify malicious domains and block traffic to these domains. Admin can also blacklist URL to block users from accessing them. Use hardware accelerator to speed up RNN training.
- Built and tested REST API with Node.js and MongoDB. Implement CRUD functionalities.
- Implemented Google OAuth to login and get user profile data on the Android App.
- Implemented Graphs and Charts on the Android App using MPAndroidChart library by PhilJay.
- Performed CRUD operations through HTTP Calls to the Backend API.

### Jarvis | *Java, Android, Node.js, MongoDB*

May 2018 – May 2020

- Built a Native Android App that finds time that works for the most people in their group based on their Google Calendar schedule.
- Performed CRUD operations through HTTP Calls to the Backend API.
- Designed and Built UI/UX of the Android application.
- Tested using Espresso.

### Cache/Pipelining Simulation | *C, GDB Debugger, GitHub*

Sept 2020 – Dec 2020

- Modeled Direct-Mapped, n-way Set Associative, Victim Caches to get insights to their effects and improvements of a simulated CPU using programming language C.
- Utilized GDB debugger to debug memory manipulation, pointers and other useful states of data to ensure correct behaviour.

## DESIGN TEAMS

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### UBC Envision, BioT | *Instrumentation Engineer*

Sept 2020 – April 2021

- Participating in the development of IoT system that monitors and automates the beer brewing process by using technologies such as Python, Raspberry Pi, and other sensors.

## TECHNICAL SKILLS

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**Languages:** Java, C, JavaScript, HTML/CSS, Python, Ruby

**Frameworks:** Android, Ruby on Rails, Elixir/Phoenix, Node.js

**Developer Tools:** Git, Docker, Kubernetes, HELM, IBM Cloud, Android Studio

**Libraries:** AlpineJS, Slim HTML