

# Jack Rong

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## Experience

### University of British Columbia

Teaching Assistant

Vancouver, Canada

Sep 2022 – Present

- Assisted in teaching Software Construction, focusing on object-oriented programming in Java, data abstractions, test-driven design, design principles, and design patterns.
- Mentored 40+ students in a lab setting focused on object-oriented programming in Java.

### Amazon

Software Development Engineer Intern

Vancouver, Canada

May 2022 – Jul 2022

- Designed and implemented a data lake using the **AWS CDK** with Amazon S3, AWS Glue, Amazon Athena to efficiently query ingested logs for use with security controls within Amazon payment systems.
- Rewrote **Python** AWS Lambda functions to leverage the data lake and improve execution times by 20%.

### University of British Columbia

Teaching Assistant

Vancouver, Canada

Sep 2019 – Apr 2022

- Assisted in teaching an introductory course on Models of Computation, focusing on algorithms, discrete math, logic, and circuits.
- Taught 300+ students in a lab setting focused on physical integrated circuits and simulated logic circuits.
- Graded homework, assignments, and exams for 2000+ students.

### BGC Engineering Inc.

Web Development Intern

Vancouver, Canada

Sep 2020 – Apr 2021

- Collaborated with developers, project managers, and QA analysts to maintain and develop features for an enterprise geohazard management system.
- Implemented map-based features and widgets using the **ArcGIS API for JavaScript**.
- Designed and developed client-focused graphs and dashboards using **React** and **TypeScript**.
- Implemented back-end API controllers using **C#** and created scripts for **SQL** databases.

## Projects

### AE Resume Generator (React, Redux, React Router, C#, SQL)

Jan 2022 – Apr 2022

- Worked in a team of six members to design and develop a full stack resume generator system to allow for easy requesting, managing, and creation of personal resumes for engineering project proposals.
- Led a team of three frontend developers to define and develop the user interface and user experience.
- Implemented 20+ reusable React components and containers, set up page routing using React Router, connected the backend REST API and IdP authentication to the frontend.

### LyfeStyle Tracker (Android Studio, Java, SQL, PHP)

Jun 2020

- Developed a fitness app for the Android platform with a relational database model, working in a team of three members. Allows for tracking of meals and exercises, and creation of diet and workout plans.
- Implemented a sortable and searchable UI to list user entries, populated using SQL queries.
- Implemented the ability to add, update, and remove meal and exercise entries.
- Created web API using PHP to connect app with Oracle database.

## Education

### University of British Columbia

Bachelor of Science

Vancouver, Canada

Sep 2018 – Apr 2023

- Major in Computer Science

## Technical Skills

- Programming:** Java, JavaScript, C#, C/C++, SQL, Python, Racket, OpenGL ES
- Web:** React, jQuery, HTML, CSS
- Tools/Environment:** AWS CDK, Git, Android Studio
- Test:** JUnit, Mocha.js, Chai.js