

JACK RONG

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github.com/jackisrong

Technical Skills

- Programming: Java, C#, C/C++, SQL, Racket, GLSL*
- Web: JavaScript, React, HTML, CSS
- Tools/Environment: Jira, Git, Android Studio
- Test: JUnit, Mocha.js, Chai.js

* currently learning

Experience

Teaching Assistant

The University of British Columbia

Sep 2019 – Present

Vancouver, Canada

- Teaching Assistant in the Department of Computer Science for an introductory course in models of computation, including algorithms, discrete math, logic, and circuits.
- Taught laboratory classes about physical circuits, simulated circuits, and regular expressions.
- Graded student homework, assignments, and exams.

Web Developer

BGC Engineering Inc.

Sep 2020 – Apr 2021

Vancouver, Canada

- Web Developer on an agile software team. 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**.
- Developed custom forms, tables, and graphs using **React** and **TypeScript**.
- Implemented back-end API controllers using **C#** and developed scripts for **SQL** databases.

Technical Projects

Movie Awards (React, JavaScript, React Bootstrap)

Jan 2021

- Developed a web app to add movies onto a nominations list. Uses the OMDb API to search for movies based on a search term. Saves nominated movies locally.

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 3. 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.

Lab Grade Parser (JavaScript, HTML, CSS)

Jan 2020 – Aug 2020

- Developed a web app to simplify Teaching Assistant work as aspects of grading went digital.
- Implemented parsing of two CSVs to match student grades to their name using a common student ID. Used by dozens of Teaching Assistants to simplify and speed up workflows.

Mangosteen Budget (Java, JavaFX)

Sep 2019 – Dec 2019

- Developed a budgeting application with graphical interface which allows for creation, modification, and deletion of income and expense items with local data saving.
- Implemented graph visualization of income and expenses by time and category.

Education

The University of British Columbia

Bachelor of Science

- Major in Computer Science

Sep 2018 – Apr 2023

Vancouver, Canada