



Riley Knowles

Year 3, Computer Science | knowles.riley@gmail.com | (971) 263 3479 | <https://github.com/knowriley>

TECHNICAL SKILLS

Languages: Java, C, C++, LaTeX, JavaFX, JavaScript*, HTML/CSS*, R*

Software: IntelliJ, Visual Studio Code, Overleaf, WebStorm, RStudio

*currently learning

PROJECTS

Local Produce Calendar (Hackathon)

Apr 2019

- Designed and built a React.js app that provides the produce in season for a particular month and city as part of a four-member team at Girls in Tech: Hacking for Humanity
- Implemented an app router to include multiple pages with differing functionality, including a dropdown menu created with React Bootstrap with no prior experience in the listed technologies
- *Technologies:* JavaScript, Html, CSS, React.js, Node.js, WebStorm

Sustainability Tracker (Academic)

Sep 2018 – Dec 2018

- Implemented an object-oriented desktop application where users earn points and set goals based on sustainable activities they complete daily
- Utilized subclassing to produce an intuitive design, implemented exception catching/handling to increase program robustness, and systematically tested the program using the JUnit testing framework
- *Technologies:* Java, JUnit, JavaFX, IntelliJ

WORK EXPERIENCE

Undergraduate Teaching Assistant

May 2018 – Present

The University of British Columbia, Vancouver, BC

Sep 2018 – Dec 2018

- Currently facilitating labs and office hours while also working as a member of the grading team for the competitive prerequisite course to the computer science degree at UBC
- Supporting students in their implementations of binary/arbitrary-arity trees, self/mutual recursion, and graphs by explaining and justifying the effective steps of data and function design

Assistant Instructor

Aug 2018

Spotlight Musical Theatre Academy, Lake Oswego, OR, USA

- Simultaneously learned and instructed students in multiple dance numbers at an intensive 2-week musical theatre program at an established Portland theatre academy

Trade Show Sales Associate

Jul 2018 – Aug 2018

Hot Skwash, Tigard, OR, USA

Jul 2017

- Familiarized self with product line and pricing one week prior to AmericasMart Atlanta, the largest wholesale gift show in the United States to write orders and engage effectively with customers resulting in personally writing thousands of dollars in sales

Instructor

May 2018 – Jun 2018

Mathnasium, West Linn, OR, USA

Apr 2017 – Aug 2017

- Learned the specific curriculum of the Mathnasium franchise, including content, techniques of instruction, and day-to-day practices in order to instruct struggling to advanced learners in concepts ranging from basic addition to calculus

EDUCATION

The University of British Columbia

Expected Graduation May 2022

Bachelor of Science – Computer Science, 3rd Year