

# SEGAL AU

Computer Science | au.segal@gmail.com | segalau.com | github.com/segalau | 778-302-6170

## Skills

**Languages** JavaScript / jQuery, Python, Java, C/C++, SQL  
**Technologies** React (Redux), Node (Express), MySQL, Webpack, Jest, Mocha  
**Tools** Git, Bash, Maven, SVN, Tomcat  
**Environment** Linux, Windows

## Experience

### Software Developer (Co-op) | Agreement Express / Vancouver, BC

Jan – Aug 2018

- Contributed in designing and implementing responsive web application tools platform for internal development and analyst team (React/Redux)  
*Enabled cross-platform compatibility and increased productivity by approximately 70%*
- Wrote functionality for capturing, storing, and retrieving dynamic client metadata securely using Java / jQuery / Ajax / JSON
- Collaborated and designed software to meet specific client requirement changes and establish data handling regulation
- Conducted regular testing and bug fixing using Jest / Mocha / Python
- Performed back-end integration and development using internal RESTful API
- Enhanced front-end interaction and UI elements of internal development tools using React / external APIs
- Worked with analysts in creating product demos to potential and existing clients

## Projects

### Take 2 Foods | Food Waste Management Mobile Web Application

Metro Vancouver Project – Runner-Up Recipient

- Developed mobile web application using Agile methodology in 5-man team
- Implemented user rating system using JavaScript / jQuery / CSS
- Designed and wrote autofill and search functionality for user input using jQuery
- Assisted in development and design of backend infrastructure using Google Firebase/JSON

### RCHWayfinder | Administration Portal GUI / Floor Plan generator and NoSQL Cloud Database

BCIT / Royal Columbian Hospital Joint Industry Project

- Worked in 3-man team to create scalable administration portal / floor plan generator and associated cloud database (Google Firebase) for RCHWayfinder navigational web application
- Used React.js framework to create backbone of web application, handling state management with Redux
- Utilized React-Digraph API to power graphical interface for creating and mapping floor map and nodes
- Contributed in designing database structure and integration between front-end/back-end components
- Conducted thorough testing and debugging of application using Postman/Jest
- Wrote HTTP Request calls for floor and node queries/updates

### Encrypto | TEA Encryption Google Chrome Extension

Personal Project

- Text Encryption application based on Tiny Encryption Algorithm
- Follows symmetric key encryption model; allows users to securely share sensitive information using a common key
- Seamless integration into Chrome browser allows convenient ease of use
- Created using JavaScript / jQuery

## Education

### British Columbia Institute of Technology | Burnaby, BC

Jan 2017 – Present

- Computer Systems Technology – Data Communications / Internetworking  
Expected Graduation May 2019