

# Jackson Herron

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*A problem-solver and builder with a cross-functional background in chemical and software engineering. Experience working in research and start-up environments, and educational depth in engineering analysis and web-based software development.*

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## Skills

**Software:** Python, JavaScript, Node.JS, REST APIs, SQL, MongoDB, HTML, CSS, MATLAB, C, OOP  
**Chemical:** Energy and Electrochemical Technologies, Modeling and Optimization, Engineering Economics  
**Additional:** Technical Communication, Project Management, Independent Problem Solving, Leadership

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## Experience

Michael Smith Laboratories, Vancouver, Canada May 2018 – August 2018

### Research Associate – Cell Therapeutic Manufacturing

- Collected, analyzed, and presented data from cell culture experiments in concise written and oral reports. The experiments concerned T Cell manufacturing methods for immunotherapy clinical trials.
- Simplified research by writing fully documented, extensible programs for a Hamilton NIMBUS pipetting robot.

Full Circle Recycling, Bozeman, MT

May 2016 – December 2016

### Operations Associate – Oil & Biodiesel Processing

- Developed and operated processes to recycle around 25,000 gallons of used cooking oil per month and produce approximately 2,500 gallons of biodiesel in the same interval. This resulted in fuel savings for the fleet of recycling trucks and drove profits in the trade of used cooking oil. One person's trash really is another person's treasure.
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## Technical Projects

StoreHouse [ [Source](#) ], General Assembly September 2019

- Created a full stack web application for solar-plus-storage cost savings estimation using a Python-Flask back end, JavaScript-React front end, Genability's Switch API, and an open source energy storage optimization model.

Seminar Course Coordinator [ [Source](#) ], University of British Columbia January 2019 – April 2019

- Facilitated a 400-level student seminar that analyzed decarbonization solutions from interdisciplinary frameworks.
- The course received recognition from the UBC Faculty of Applied Science and will be presented at the Canadian Society for Chemical Engineering conference on October 22<sup>nd</sup>, 2019.

Capstone Project, University of British Columbia & Greenlane Biogas Inc. October 2018 – April 2019

- Led a team to deliver a comprehensive design for a renewable natural gas facility to an industry partner, Greenlane Biogas, including plant layout and equipment specification, environmental impact assessment, and economic analysis.
  - Won the faculty award to progress to the Hatch plant design competition in Halifax, October 20-21<sup>st</sup>, 2019.
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## Education

General Assembly, San Francisco September 2019

### Software Engineering Immersive Graduate

University of British Columbia, Vancouver May 2019

### Bachelor of Applied Science, Chemical and Biological Engineering | GPA: 93.1%

- International Leader of Tomorrow Scholar 2014 – 2019
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## Interests

Yoga | Hiking | Travel | Flyfishing | Culture | Art | History | Music | Climate Tech | Climate Justice