

# CONNIE HO

## Full Stack Developer & Engineer

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## SUMMARY

Diverse engineer with experience in tech, energy and biomedical industries. From my most recent work on transforming inefficient processes with digital methods, I have developed a passion for software development and solving complex problems with elegant technological solutions

## SKILLS

### Languages

Python Javascript Ruby

C HTML CSS

### Front-End

React jQuery Material UI

SASS Bootstrap

### Back-End

Rails Flask Node Express

MongoDB PostgreSQL

SQL Server MySQL

### Tools & Technologies

CircleCI Netlify Heroku

Storybook Cypress Figma

Visual Studio Code Git

### Other

Matlab Visual Basic Latex

Minitab Visio PowerBI

VMGSim (HYSYS/ASPEN equiv.)

## EDUCATION

### Web Development Diploma

Lighthouse Labs 2021

- An immersive program focused on web development, computer science fundamentals, software architecture, automated testing, and database modelling among other concepts, consisting of 700+ hrs

### BSc. Chemical Biomedical Engineering

University of Alberta 2018

- First class standing with distinction (GPA: 3.9/4.0)
- Awarded \$15,000+ in scholarships

## PROJECTS

### Smart To-Do List



- A to-do list that uses natural language processing to auto-categorize task items and auto-generate item specific details
- Tech Stack: jQuery, AJAX, Node.js, Express.js, SASS, PostgreSQL
- (APIs: Google, Yelp, Amazon, MovieDB)

### Scheduler



- A scheduling application that allows multiple students to simultaneously book, update and delete appointments with mentors
- Tech Stack: React, Express.js, WebSocket, PostgreSQL, SASS

### C\$50 Finance



- A real-time paper trading application that allows users to buy, sell and manage a portfolio of stocks
- Tech Stack: Flask, SQLite, HTML, CSS, Bootstrap (APIs: IEX)

## EXPERIENCE

### Reservoir Engineer Imperial Oil

2018 – 2020 Cold Lake, CA

- Improved performance of 2000+ wells through forecasting, analysis of large data sets using SQL, VBA and worked with multi-disciplinary teams to implement optimization opportunities
- Managed and completed economic evaluations for minor capital and operational projects with a combined value of C\$50M/yr
- Developed algorithms to automate determination of equipment set-points and alleviate operator workload, valued at C\$10M/yr
- Led departments of incident management teams responding to emergency events such as blowouts, COVID-19 control and turnaround optimization
- Co-founded the network advisory program to foster community between new graduates and senior management

### Tailings Student Imperial Oil

2017 Calgary, CA

- Led tailings recovery improvement project to increase facility reliability by >50% through design of experiments, multivariate analyses, coordination of team members and hands-on execution of lab tests

### Device Technology Intern Nippon Telegraph Telephone

2016 Atsugi, JP

- Designed and fabricated novel biosensors while working safely and efficiently with delicate procedures, biohazards and dangerous chemicals in an airtight laboratory setting

### Research Assistant University of Alberta

2015 Edmonton, AB

- Assessed significant factors influencing human torso asymmetry by developing contour maps on 3D CAD models, published key findings as first author and presented findings at the CMBBE Symposium in just under 5 months