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

Flask   Node   Express   Rails

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