

John Pearce

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EDUCATION

Springboard Academy
Software engineering track, Certification

Remote
Jun 2022 - Mar 2023 (expected)

Brigham Young University
B.S., Chemical Engineering (GPA: 3.53/4.00)

Provo, UT
Sep 2016 - Apr 2021

PROJECTS

Kairos Molten Salt Corrosion Presentation

- With a 4 person team, designed a method for detecting chromium absorption in FLiBr salts at high temperatures

Shell-in-tube heat exchanger model

- created a coding model that allows users to specify parameters, then suggests dimensions for a shell-in-tube heat exchanger. This was created for Engineers who needed to quickly determine sizing for equipment.

Jeopardy (<https://github.com/jdp111/Jeopardy>)

- An app that mimics actual instances of the popular game show 'Jeopardy!'. Uses Javascript with Axios queries.

Bollinger Band Price-Action trading app (<https://bollinger-sim-app.herokuapp.com/results>)

- An app that allows users to select parameters for creating a custom Bollinger band stock trading strategy, then simulate how it would play out with historical stock price data. Used to determine viability for short-term Price-action trading strategies automated by a computer.

WORK EXPERIENCE

Jacobs Engineering Group
Chemist/Lab Analyst

Dugway, UT
Nov 2021 - Present

- Managed testing of protection and detection equipment for chemical warfare agents
- Conduct chemical analysis (GC, NMR) to identify compounds present in air and liquid
- obtained and held a Secret security clearance working with the US government

BYU Department of Chemistry & Biochemistry
Organic chemistry lab Teaching assistant

Provo, UT
Jan 2019- May 2021

- Distributed and oversaw safe handling of chemicals
- Tutored students on procedure and principles of organic chemistry (10 hours/week)

BYU Department of Chemical Engineering
Research Assistant

Provo, UT
Nov 2018- Apr 2019

- Assisted graduate student on research for solid electrolyte batteries
- Worked with a multi-talented team to solve problems with electron transfer through electrolyte

ADDITIONAL INFORMATION/SKILLS

- Programming languages: C++, JavaScript, NodeJS, HTML, Python, MATLAB,
- Performed service for two years in Malaysia
- Foreign languages: Fluent in Mandarin Chinese (speaking, reading). Proficient in Malay
- Sung in the BYU Men's Chorus, Play guitar, skiing, motorcycle enthusiast
- Studied abroad in GuangZhou, China