**John Pearce**

**EDUCATION**

Springboard Academy Remote

**Software engineering track, Certification** Jun 2022 - Mar 2023 (expected)

Brigham Young University Provo, UT

***B.S., Chemical Engineering***  *(GPA: 3.53/4.00)* 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 Dugway, UT

**Chemist/Lab Analyst** 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 Provo, UT ***Organic chemistry lab Teaching assistant*** 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 Provo, UT

***Research Assistant*** 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