

SIEGFRIED PESCHKE

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EDUCATION

University of Calgary
Bachelor of Science
Major in Physics

STRENGTHS & SKILLS

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|----------------------------|--------------|--------------|
| · Research & Data Analysis | · HTML | · Java |
| · Calculus & Statistics | · CSS | · Python |
| · Analytical Thinking | · JavaScript | · TensorFlow |
| · Technical Writing | · TypeScript | · AutoIT |
| · Strong Collaborator | · Angular | · Latex |

PROJECTS

Atmospheric Monitoring System

- A raspberry pi unit is utilized in conjunction with a barometer and particle counter to measure temperature, pressure, humidity and particle counts per mass bin.
- A server utilizing TCP sockets was built in python alongside a python GUI application to both display and manipulate data using filters and trend setting.

Personal Coding Projects

Stock Portfolio Manager *(In Progress)*

- A Java + Springboot backend server interfaces with the MySQL database to fetch and write user data connecting to the YahooFinance API to fetch matching current and historical stock data.
- An Angular frontend features current and sold positions in the stock market, displaying them in a single, customizable, and sortable view. Includes a watchlist and NASDAQ, NYSE, TSX exchanges.

World Population Demo

- An interactive demo of population distribution across countries and plots of population growth of individual countries since the 1960's. Designed in Angular utilizing the HighCharts package.

Popular Books Library

- A Book Library whose focus was on dynamic and responsive data presentation using observables along with user forms to filter through the 1000 book dataset. Selecting a book displays details, a brief description and the selection on Amazon. Designed in Angular utilizing the PrimeNG Package.

Agenda App

- A custom To Do List combined with a Calendar for a fully integrated Agenda application.

JavaScript Games

- Basic games including Tic Tac Toe, 2048, War and BlackJack. Simple practice projects which reinforced JavaScript skills by handling user input and rules of each game, along with HTML and CSS.

WORK EXPERIENCE

University of Calgary Isotope Laboratory, Calgary AB
Senior Thesis & Product Developer

Jan 2020 - Sept 2020

- Improved experimental procedure of lead isotope analysis by adjusting ion exchange procedure which resulted in 2726% reduction of lead content in control samples.
- Successfully built a thermostat; raspberry pi based measurement unit with a full GUI.