# SIEGFRIED PESCHKE

Portfolio: sigipeschke.github.io

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## EDUCATION

**University of Calgary**                                              Sept 2016 - May 2021
Bachelor of Science, Major in Physics, GPA: 3.5                                Calgary, AB

## CERTIFICATES

Web Development (IBM)         JavaScript (IBM)         NodeJS & ExpressJS (IBM)         SQL (W3Cx)

## WORK EXPERIENCE

**Software Developer**                                                        2020-2021
University of Calgary Isotope Laboratory                                       Calgary, AB

· Designed a full stack system to measure and analyze atmospheric contamination in laboratory.
· Utilized the AGILE approach to design and development with emphasis on customer collaboration.
· Designed a raspbian system to measure and collect temperature/pressure/humidity/particle count data.
· Connected the raspbian measurement unit to a Python server through TCP sockets.
· Designed the server to store data in a CSV file. Redundant CSV file stored on raspbian unit.
· Developed Tkinter GUI to display current values, chart data, and provide methods for filtering noise.

## PROJECTS

**InvestmentIQ**                              Angular, MySQL, Java, SpringBoot, Yahoo Finance, PrimeNG

· A powerful tool for managing and tracking your stock market investments.
· Utilized the AGILE approach to design and development with emphasis on customer collaboration.
· Designed database architecture and developed a RESTful backend to serve all user and stock data.
· Created a custom dynamic table to provide a comprehensive overview of stock performance.

**Bookworms Haven**                                                    Angular, PrimeNG, RxJS

· Created the Netflix of popular books, allowing the user to browse or search for a new read.
· Designed an attractive UI using the PrimeNG package with carousels and a paginated table.

**Population Insights**                                        Angular, ChartJS, Highcharts, RxJS

· An interactive demo of the world's population distribution and plots of growth trends since the 1960's.
· Utilized RxJS observables and HTML template forms to provide a responsive and engaging UI.

**JavaScript Games**                                                  JavaScript, HTML, CSS

· Developed single player puzzle and card games: 2048, BlackJack, War and Tic Tac Toe.
· Strong emphasis on implementing object oriented principles in designed the core of each game.
· Designed with fluid and familiar UI utilizing CSS animation for a pleasant user experience.

## TECHNICAL SKILLS

**Languages**        JavaScript, TypeScript, Java, Python, SQL, HTML, CSS
**Tools / Frameworks**   Angular, NodeJS + ExpressJS, SpringBoot, TensorFlow, VS Code, Git