

SIEGFRIED PESCHKE

Portfolio: sigipeschke.github.io

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EDUCATION

University of Calgary

Bachelor of Science, Major in Physics, GPA: 3.5

Sept 2016 - May 2021

Calgary, AB

CERTIFICATES

[Web Development \(IBM\)](#)

[JavaScript \(IBM\)](#)

[NodeJS & ExpressJS \(IBM\)](#)

[SQL \(W3Cx\)](#)

WORK EXPERIENCE

Software Developer

University of Calgary Isotope Laboratory

2020-2021

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 server through TCP sockets.
- Designed the server to store data in a MySQL database. Redundant CSV file stored on raspbian unit.
- Implemented Java + SpringBoot API for client to retrieve data for a given time period.
- Developed Angular front-end 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