Erik Langille

Software Engineer with strong web fundamentals, a passion for impactful automation, and understanding of big data analytics.

Contact

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Professional Experience

Motorola Solutions

Software Engineer (Systems) Co-op/Intern Jan - Aug 2021

Video Security & Analytics - Avigilon -

- 10x accuracy improvement for assessing system limitations (cameras, recording appliances, video management software) by revamping testing of the stack to be automated using Python and C#
- Redesigned team internal reporting to have an intuitive layout using web technologies (HTML, CSS, Python, Flask)

Prince Rupert Port Authority

Data Analytics Co-op/Intern May - Dec 2020

Digital Business Division -

- Increased data reliability, reduced server load, and saved more than 10 hours of administrative work per week by designing a SQL data warehouse solution with C#
- Informed executives about a new proposed revenue structure by building map charts using Jupyter notebooks with Python and Matplotlib

Design Team

UBC Mint - Brain Computer Interfaces

Software Team

Mar 2021 - Present

- Enabled a brain controlled smart home by creating the user visual interface in JavaScript, HTML, CSS
- Designed communications between the EEG brain headset and the computer in Python

Languages

Python; C#; SQL; JavaScript; TypeScript; HTML5; CSS; Some experience with Dart, C, C++, Rust

Technologies

Pandas; Matplotlib; Flask; Docker; Selenium; SQLite; SQL Server; PostgreSQL; React; Next.js; Node.js; Figma; Sass; Flutter; Redux; Firebase

Side Projects

Full Stack Portfolio Website

For uOttaHack Hackathon -

- Emphasized the story of a project from ideation to outcome by implementing a full stack simplified portfolio
- Presented dynamic content by designing the app in TypeScript with a Node.js backend and a frontend in React

Neighborhood Matching Website

For UBC's nwHacks Hackathon -

- Proposed and implemented a dynamic website that recommends neighborhoods based on given preferences and budget
- Designed the algorithm to be informed by Craigslist rental listings, OpenStreetMap APIs, and stored the data in structured tables using PostgreSQL

Time Management Mobile App

- Increased personal time management by prototyping a multi-platform mobile app in Adobe XD and building it in Flutter
- Implemented account functionality and cloud data storage developed using Firebase's Authentication and NoSQL database solutions

Education

University of British Columbia

BASc Electrical Engineering Sep 2017 - May 2022

 Emphasis on computer science classes including data structures, deep learning, statistics, and computer architecture