William Gumboc

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Skills

JavaScript | HTML/CSS | MongoDB* | Express* | React | Node.js* | Redux | C/C++ | Java | Python

Projects

Course Progress Dashboard   04/2022 – present
Personal Project (JavaScript, React, MongoDB)
- Created a web app using React and an Express framework that allows a user to track their courses and assessments, calculate their weighted average, and predict their final grade through the use of function components
- Set up and connected a MongoDB database to enable data to be stored and retrieved for user specific course addition and removal, custom assessment addition, and continuous grade calculation
- Integrated JSON Web Token user authorization capability and authentication using the Redux toolkit
- Implemented functionality to update data using the Axios library to make CRUD requests to a REST API

ParkPal   03/2022 – 03/2022
Hackathon Team Project (JavaScript, HTML, CSS)
- Created a web app that visually locates the 100 closest parking meters to any selected spot in Vancouver through querying data provided by the City of Vancouver's parking API as well as utilization of the Google Maps API
- Features the ability to highlight the 10 cheapest spots and the ability to filter for spots that allow stays of > 2hrs

Analysis and Prediction of Crime in Greater Los Angeles   03/2022 – 04/2022
Academic Project (Python)
- Created visualizations using matplotlib, seaborn, and folium packages to analyze and gain insights on crime statistics in the Greater Los Angeles area
- Leveraged scikit-learn machine learning algorithms to predict crime given various parameters

Employee Scheduler   09/2021 – 11/2021
Academic Project (Java, Swing Toolkit)
- Developed a Java desktop application using the Swing GUI toolkit for creating new positions and assigning employees to their relevant position restricted by their skillset

Professional Experience

Manufacturing Quality Control Supervisor   06/2019 – 07/2021
PepsiCo.
- Led a team of 25 quality control and sanitation frontline workers in a 24-hour operation over 6 production lines in batching operations, filling operations, microbial testing, and manufacturing equipment sanitation
- Improved annual product yields by $191,000 in 2019 and maintained results through 2020 by conducting daily loss analysis, optimizing process parameters, creating detailed SOPs, and implementing production strategies

Supply Chain Operations Associate   06/2018 – 06/2019
PepsiCo.
- Managed the supply planning of raw materials to ensure accurate and punctual delivery, including working with materials vendors and transport coordinators to resolve issues and adapt production to supply restrictions
- Implemented efficient processes and VBA tools to purchase and schedule beverage can line raw materials leading to downtime reduction of 12% from material availability

Education

BCS - Major in Computer Science   09/2021 – present
University of British Columbia

BASc - Major in Chemical Engineering, Minor in Commerce   09/2013 – 05/2018
University of British Columbia