UBC Science Co-op

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Danny Wei

Computer Science & Statistics Student
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TECHNICAL SKILLS

Programming Languages: Javascript, React.js, Angular, Java, C#, PHP, Python (Sci-kit learn, Pandas, Numpy, Pulp), R
Tech: Oracle, MySQL , SQL Developer, Power BI, Tableau
Competencies: Machine Learning, Statistical analysis, OOP, Functional Programming, Linear Programming

EXPERIENCE

Software Developer Co-op, Copperleaf Technologies | C#, TypeScript, Angular, Power BI Jan 2022 - Aug 2022

- Improved Angular Frontend usablitlity by creating new widgets which users can interact with for a better user experience
- Added configurable fields to Esri GIS feature by refactoring the code and updating related unit tests to improve overall user experience for specific needs
- Implemented machine learning features into Copperleaf software by adding various classes to extract user data, helping deliver software that is updated with machine learning capabilities to clients
- Created and productized a set of Power BI dashboards that use minimal import data from Oracle by designing their layouts to allow users to compare up to four investment scenarios together

HIGHLIGHTED PROJECTS

Binary Tree Visualization- React.js

- Animated tree traversal visualizer, automatically takes inputs and animates the addition to the tree
- Displays animation of pre, post, level, in-order traversals of the tree

Relational Database Translink Model- PHP, Oracle SQL

- Transformed the BC transit system using entity diagrams and created a relational database using oracle SQL
- Created an intuitive PHP frontend for users to add objects such as buses, stops, and routes into a relational database

NBA Player Scoring Visualization - MySQL, Tableau

- Created a Tableau Visualization using NBA player scoring statistics from 2020/21 season to construct a visual dashboard displaying a comparison of 3-point, 2-point, and free throw scoring
- Queried data from a non-time series relational database of over 500 players using MySQL to sort and filter data for the purpose of visualization

Optimal player lineups in Hockey w/ Linear Programming - Python Pulp

- Used regular season hockey data to determine optimal playing time for each player in the 2011 stanley cup finals
- Performed sensitivity analysis to see how certain changes could have affected the outcome of a game
- Achieved the highest score in the class earning 90% on this analysis

EDUCATION

4th Year Bachelor of Science, Computer Science & Statistics Sep 2019 – May 2024
University of British Columbia, Vancouver, BC
Courses: Statistical Inference, Relational Databases, Linear Programming