Danny Wei

Computer Science + Statistics Student
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TECHNICAL SKILLS

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

EXPERIENCE

Data Science Co-op, Copperleaf Technologies — Jan 2022 - Present

- **STUFF**

HIGHLIGHTED PROJECTS

Relational Database Translink Model- PHP, Oracle SQL — Oct – Nov 2021

- Collaborated with a team of three to create a relational model representing BC's Translink System
- Transformed the Translink 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 to be efficiently stored.

NBA Player Scoring Visualization - MySQL, Tableau — July 2021

- 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

Mentor-Mentee Pairing System - Python CSV — June 2021

- Took initiative by using previous Python CSV experience to semi-automate the mentor-mentee pairing process, reducing the processing time from 6 hours to mere seconds
- Implemented object-oriented design with the algorithm used in dating apps to score mentees and mentors based on similar responses to questions; students with scores above a user-determined threshold are paired

Optimal player lineups in Hockey w/ Linear Programming - Python Pulp — Feb 2021

- Created an optional project for Linear Programming class: Optimizing the Vancouver Canucks
- Used data from a relational database about the Canucks and the Bruins 2011 regular season in Python Pulp to calculate and determine a potentially different outcome to the series based on each team's regular-season performance
- Performed sensitivity analysis to see how certain changes could have affected the outcome of a game, such as adjusting the maximum playing time of the best player and minimizing the number of penalties given out
- Achieved the highest score in the class earning 90% on this analysis

EDUCATION

4th Year Bachelor of Science, Computer Science & Statistics — Sep 2019 – Dec 2023
University of British Columbia, Vancouver, BC
Courses: Machine Learning, Statistical Inference, Relational Databases, Linear Programming