AARON TANG

CONTACT INFORMATION

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PROGRAMMING

Languages:
R, SQL, Python, Javascript, PHP, Java, HTML, CSS, C, C++, Bash Scripts

Frameworks/Libraries:
Tidyverse, React.js, Express.js, Node.js, Angular.js, Django, Bootstrap, Tkinter, OpenGL

Data Analytics Softwares
Tableau, Google Sheets, Excel

EDUCATION

Ryerson University
Toronto, ON | 2017 - 2021
Bachelor of Science:
Major in **Computer Science**
Minor in **Business Essentials**
4th year GPA: 3.54 Dean's List

Google Data Analytics Certificate

INTERESTS & HOBBIES

Stock Market Trading
- Using various indicators such as EMA, MA, RSI and MACD to better analyze current market trends and evaluate companies' current market value
- Over 50% portfolio growth in the last 12 months

Computer Optimization and Customization
- Created personal game server to avoid expensive 3rd party server costs
- Overclocked monitor, CPU and GPU to increase performance for those components with no extra costs

EXPERIENCE

Full Stack Web Developer, Team Lead
Elements of Knowledge (Jun 2020 - Apr 2021)
eokarcade.com
STEM tutoring institution and e-learning platform
- Built and launched an online educational application with React.js, Node.js, Express.js and MySQL on AWS Elastic Beanstalk
- Designed, developed and deployed user authentication using Passport.js and OAuth 2.0
- Promoted to team lead 2 months into project after demonstrating strong collaborative & leadership skills
- Advocated and persuade team to adopt agile principles in the software development lifecycle
- Implemented End-to-End and Regression tests to prevent production issues and test edge cases
- Database normalization in MySQL to minimize data redundancy

PROJECTS

Cyclistic Bike Share Case Study
R (Tidyverse Package)
- Ensured column name and type consistency
- Aggregated the last 4 Quarters of Cylistic's riders data
- Cleaned data by fixing data inconsistencies and removing unnecessary columns/inaccurate rider data
- Mutated data for clearer understanding and convenience for data visualizations
- Generated data visualizations using ggplot2 to analyze and display findings on how "casual" riders could be converted to "members"
- Provide recommendations based on the data analysis on new programs and campaigns to accomplish the company's objective

Ride Share Application
Angular.js, PHP and MySQL
- Implemented Google Maps API to determine distance from start to destination
- Fully responsible for user authentication
- Incorporated hashing and salting for additional database security

Packing Words in Bins
Java
- Capitalized on the run time restriction of one minute by incorporating a mixture of brute force, requirement checking and safety checking
- Resulted in a top 10 score in Data Structures class (CPS305)

Speed Clicker Game
Python Tkinter
- Built a game with an interactive graphical user interface for users to test their reaction times
- Scoreboard system updated and organized using Python Pandas

3D Battle Bot and Mesh generator
C++ and OpenGL API
- Included multiple primitive parts to construct the Battle Bot with moveable components
- Converted customizable 2D curve to 3D mesh