Tyler Elms

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Education

Brigham Young University - Idaho April 2017 - April 2023 Major: B. S. in Software Engineering   Rexburg, Idaho
Minor: Software Design
GPA: 3.4/ 4.0
Relevant Course Work: Programming with Data Structures, Algorithm Design, Data Science Programming, Machine Learning, Modularization Design, Programming with Classes, Business Statistics, and Software Testing, JavaScript language, and C++ Language

Professional Experience

Trove Brands   November 2022- Current
Orders Coordinator – Supply Chain   Lehi, Utah
- Ensure data accuracy of hundreds of orders within Sales Pad every day
- Communicate with other department representatives to efficiently fulfill orders that meet the standards of both the customer and Trove Brands
- Quickly learn new workflows and software to support other team members and increase department effectiveness
- Seek out and implement ways to innovate in both department documentation and overall processes

Brigham Young University - Idaho   February 2021 - September 2022
Data Scientist – Support Center   Rexburg, Idaho
- Developed Full-Stack machine learning software to accurately and precisely predict call center Volume, reducing yearly cost by over 13%
- Presented predictions in interactive visuals using Streamlit library
- Maintained and created Power Bi reports for university's leadership and support center with 99% data accuracy
- Coordinated with representatives from across university departments to ensure accurate and precise data is taken into account for decisions made
- Ensured software systems were working correctly for data collection, limiting errors by 8% on average

Key Projects and Experiences

Volunteer Tutor - Team member   May 2022 - Current
Python, C++, Java, and JavaScript   Rexburg, Idaho
- Guided students to solve problems from courses and personal projects
- Trained students how to break down and evaluate elements of program enabling scores at least 10% higher on next project
- Explained reasoning and applications to principles taught in class
- Emphasized importance of Software design, including efficiency using Big O notation
- Required to maintain a 3.7 GPA to participate

Tutorial Guide for Data Structures - Project Leader   May 2021
Python and C++   Rexburg, Idaho
- Designed and structured a guide for future students to learn data structures such as Linked Lists, Binary Tress, and Queues
- Utilized a deep understanding of the subjects to accurately teach them to other students
- Designed tutorials and coding examples locally while collaborating with teammates to push work to Github
- Programmed highly efficient classes to show the power of data structures using Big O notation as a measure

Forecasting Software   September 2021 – Current
Python, Heroku, and Streamlit   Rexburg, Idaho
- Handled API calls to database containing call center data
- Reorganized data using Empirical Rule to label call volume by hour
- Integrated a user-friendly interface with streamlit so department leadership may understand predictions
- Designed to be used to make mindful decisions with hiring employees, on average, saves support center $50,000 yearly
- Implemented XGBoost, LGMRegressor, and Time Series to achieve best RMSE score
- Structured code so it may be easily read and understood by team members and management

Skills

Languages
Advanced – 2+ years (Python, C++, SQL, JavaScript, Neural Networks, Reinforcement Learning, PowerBI, Software Testing)
Intermediate- 1 year (C#, Swift, Go, HTML5, CSS, Java, Firebase, ReactJS, NodeJS)
Tools
Advanced – 2+ years (XCode, Git, Visual Studio, Agile Methodology, MATLAB, Power Bi, Git, PyTest, TensorFlow, Plotly Dash)