Trevor McDougald

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About Me

Soon to be graduate from Texas State University with a Bachelor of Science in Computer Science in 2019. Passionate about designing and developing large scale enterprise applications. Prioritize writing clean, concise, and clear code to improve maintainability and extensibility. Seeking to contribute at a company by utilizing proficiency in collaboration and communication.

Skills

Technical

Programming Languages: Python, Java, C

Client Side: HTML5, XML, CSS, JavaScript, jQuery, AJAX

Server Side: Node.js, XAMPP (Apache, MariaDB, PHP, Perl)

Tools: SQL, Travis CI, Git, intellij, VS Code, UML, Linux, Bash, Windows 10, Distributed

Professional

Database Management / Version Control / Continuous Integration / Agile Methodologies / Test Driven Development / Professional Documents

Personal

CPR / Emergency Care / Communication / Time Management / Active Learning / Collaboration

Education

Texas State University

Pursuing **B.S. Computer Science**
Minor: Applied Mathematics
8/2017 - Current | San Marcos, TX

COURSEWORK

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- Unix System Programming
- Internet Software Development
- Theory of Automata
- Software Engineering Project
- Software Engineering
- Operating Systems
- Intro to Database Systems
- Intro to Data Mining
- Object-Oriented Design & Programming
- Data Structures & Algorithms
- Computer Architecture
- Assembly Language
- Foundations of CS II
- Foundations of CS I
- Computer Ethics
- Elements of Computer Programming

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Memberships & Activites

- .EXE Computer Science Club
- Association for Computing Machinery
- GNU Linux Users & Enthusiast
- 5th Austin Diversity Hackathon

References

Available upon request

Projects

Blackjack Casino Game
July 2019 - Current

`Python` `Sphinx` `unittest` `logging` `pygame` `Travis CI`

A python library and application for emulating a casino blackjack table.

- The game was designed with a variation of the Model-View-Presenter architecture, where the Presenter acted as a supervising controller.
- The Python logging library is used to implement project wide logging.
- The documentation generator Sphinx is used with Google style docstrings to create a reStructuredText markup document.

E-commerce Shopping Website
September 2019 - Current

`HTML5` `CSS` `JavaScript` `jQuery` `AJAX` `XAMPP`

Client side scripting languages were used to design and implement, an e-commerce website. A web application for shopping cart and account login functionalities was added using server side scripting languages *(Course Project)*

Time Series Analysis & Forecasting on Stock Data
January 2019 - May 2019

`Jupyter Notebook` `Seaborn` `Scikit-learn` `statsmodels` `Scipy` `NumPy` `pandas` `Matplotlib`

A historical stock quote was turned into a dataset and preprocessed for a machine learning classification problem. A Random Forest Classifier was trained to predict days a stock's price increases.

Experience

Lifeguard
June 2017 - August 2017
June 2018 - August 2018

Schlitterbahn Water Park - Galveston, Texas

- Learned to respond effectively and calmly in emergencies.
- Training in CPR and emergency care to ensure safety.
- Remained aware of situational dangers to keep park visitors safe.

Updated: 9/9/2019