

Trevor

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McDougald

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About Me

Graduated from Texas State University with a BSc in Computer Science in December 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, React

Server Side: Node.js, Express, Mongoose, MongoDB, MySQL

Tools: SQL, Travis CI, Git, UML, Linux, Bash, Windows 10, Webpack, IntelliJ

Professional

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

Personal

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

Education

Texas State University

Pursuing B.S. in Computer Science

Minor: Applied Mathematics

8/2017 - 12/2019 | San Marcos, TX

COURSEWORK

Unix System Programming
Internet Software Development
Theory of Automata
Operating Systems
Software Engineering Project
Intro to Database Systems
Software Engineering
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

Memberships & Activities

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

References

Available upon request

Projects

Blackjack Casino Game

July 2019 - September 2019

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

EJS CSS JavaScript jQuery AJAX Node.js Express Mongoose Bcrypt Webpack

jQuery and Webpack were used on the client side to design and implement an e-commerce website. User functions and store business logic were set up with an MVC architecture on the server side. MongoDB served as the Model, EJS the View, and Express.js was the Controller.

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 used as the initial dataset 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.