

Joshua Dorsett

Software Engineer

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[LinkedIn.com/in/joshuadorsett](https://www.linkedin.com/in/joshuadorsett) | [GitHub.com/joshuadorsett](https://github.com/joshuadorsett)

Education

Bachelor of Science in Computer Science, Western Governors University

December 2020

Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics, Database Engineering, Object-Oriented Design Patterns, Software Testing, Computer Architecture, Operating Systems, Machine Learning, Networking and Security

Technical Skills

Languages: C++, Python, Java, SQL, Javascript

Tools: PyCharm, Jupyter Notebooks, CLion, IntelliJ,

QT Designer, Postman, Git, IdeaVim

Frameworks: Flask, Django, PyQt5, JavaFX,

React.js, Node.js, Agile, Waterfall

Libraries: SQLAlchemy, Psycopg2, JDBC,

Scikit-learn, Pandas, Matplotlib, NumPy

Databases: MySQL, PostgreSQL, SQLite

Certifications: ITIL, CompTIA Project+

Projects

Route Planner | [GitHub](#) | Python

- Optimizes the routes of multiple shipping trucks using a modified implementation of Dijkstra's Algorithm
- Implements a custom Hash Table and Graph data structure to simulate the shipping environment
- Includes an asymptotic analysis of each function highlighting the performance of the core algorithm

Real Estate Price Estimator | [GitHub](#) | Python + Scikit-Learn + PyQt5

- Implements a Multi-Linear Regression algorithm to Predict the market value of a given house
- Includes a user friendly graphical user interface built in PyQt5 showcasing 3 interactive statistical visualizations as well as text fields to input new housing data
- Uses SQLite database to save previous housing data on a user's local machine to increase usability

Business Scheduling Application | [GitHub](#) | Java + SQL

- Manages schedules for a business and prevents overlapping appointments for both clients and sales staff
- Employs MySQL database implemented with A.C.I.D. principles to increase query performance for faster load times
- Uses a Database-Object-Model design pattern encapsulates SQL prepared statements
- Graphical user interface written in JavaFX that offers the user with multiple tables and inputs to customize their schedule and to query reports about their clients

Student Enrollment Application | [GitHub](#) | C++20

- Enrolls new students and administers their schedule to prevent overlapping courses
- Utilizes modern C++ memory management to avoid memory leaks within the application

Inventory Management Application | [GitHub](#) | Java + JavaFX

- Regulates the inventory of a company that sells products along with the parts that make up that product using polymorphism
- Implements a Model-View-Controller pattern separates the logic from the user interface
- Offers a JavaFX graphical user interface that organizes products and parts in a table and allows the user to create, read, update, and delete items from that table

Experience

A1 Audio Engineer | Bentley Meeker

July 2019 - Present

- Audio Engineering / Audio Networking at corporate and political events for NBC and The Plaza Hotel
- Tasked with leading all audio engineering related activities at an event and leading a team of engineers

Audio Engineer | Self Employed

Nov 2015 - Present

- Engineered recordings and for brands including Gap, Nike, CNN, HBO, Credit Karma, and others
- Managed large recording projects where I was tasked with selecting the project team and meeting all deadlines