Brandt Davis

(315) 516-2588 | brandtdavis26@gmail.com | github.com/Brandt459 | brandtdavis.dev

EDUCATION

Bachelor of Science, Computer Science *November 2022*
Western Governors University | Salt Lake City, UT

SKILLS

Languages:

- Python
- Java
- SQL
- HTML
- CSS
- JavaScript

Frameworks:

- Django
- React
- Node
- Express
- React Native

Databases:

- MySQL
- MongoDB
- Oracle
- PostgreSQL
- Google Firestore

Other:

- Data Visualization
- Data Analysis
- REST APIs
- Git
- Linux (Arch)

WORK EXPERIENCE

Freelance Software Developer *August 2021*
Bar Dash

- Designed and built a functional mobile application prototype using the React Native framework
- Integrated Google Firestore as the primary database for the project, resulting in data availability rates of over 99.99%
- Created a seamless user login and registration experience, incorporating multi-factor authentication for added security

PROJECTS

Car Budget Predictor *November 2022*
Full Description | GitHub

- Designed and implemented a linear regression model using Scikit-learn with 99% accuracy by analyzing 500 rows of data
- Employed Python libraries Matplotlib and Seaborn to effectively visualize and comprehend data insights
- Documented the entire project life cycle within a Jupyter notebook, which led to a 100% increase in transparency and traceability

Delivery Route Algorithm *September 2022*
Full Description | GitHub

- Implemented an efficient greedy algorithm in Python, determining the optimal delivery route by selecting from 27 locations based on proximity
- Conducted a comprehensive data analysis of 40 package records, each with 12 attributes, to identify the most significant fields for consideration
- Enhanced the delivery algorithm's capabilities by incorporating multiple package constraints, including delivery deadline and truck capacity, into the algorithm
- Optimized delivery scheduling, reducing route distance 22% to 127 miles by consolidating packages with the same destination

Appointment Setting Application *August 2022*
Full Description | GitHub

- Optimized appointment and customer data management through efficient models, leading to a seamless data display and update process
- Integrated a robust MySQL database into the Java application, improving data management and accessibility
- Enhanced the scheduling system's functionality through the addition of month and week appointment filters
- Developed a reporting feature for generating detailed appointment reports, providing valuable insights

Sorting Algorithms Visualizer *September 2020*
Full Description | GitHub

- Developed a clear and informative illustration of four sorting algorithms, including heapsort, quicksort, bubble sort, and selection sort, to showcase the sorting process
- Conceptualized and gained a deep understanding of the workings of the four sorting algorithms
- Created a user-friendly frontend interface using the tkinter Python library, enabling customization of sorting speed