# Brandt Davis

Full-Stack Software Engineer | Large B2B and B2C globally scalable applications

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## TECHNICAL SKILLS

| Languages: | Frameworks: | Databases: | Other: |
|---|---|---|---|
| Python | Flask | PostgreSQL | Docker |
| JavaScript | React | MySQL | REST APIs |
| HTML | Svelte | MongoDB | Git |
| CSS | Next JS | Google Firestore | Linux |
| Java | Django | | Bash |
| SQL | React Native | | Data Visualization |
| | | | Data Analysis |

## WORK EXPERIENCE

**Software Developer**                                                                                            *April 2023 – Present*
*Army Cyber Institute (Contracted through BluePath Solutions)*

- Fine-tuned Llama 2 Large Language Model (LLM), enhancing its performance for decision support in cyber defense operations
- Developed a full-stack web application using JavaScript. React, Python, Flask, PostgreSQL, and Docker for social media data visualization, demonstrating proficiency in REST architecture
- Collaborate effectively within a 4-member team to create prototype platforms for data management and artificial intelligence security testing, contributing to both front-end and back-end development
- Actively participate in weekly meetings with the team for requirements gathering and design discussions, ensuring project alignment with objectives
- Ensure top-notch code quality by proactively refactoring code, organizing the codebase, and implementing maintainable solutions
- Played a pivotal role in securing a significant amount of money in funding for the organization
- Provide guidance and mentorship to an intern, facilitating their meaningful contributions to development tasks

**Software Developer**                                                                                   *August 2021 - September 2021*
*Bar Dash*

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

## PROJECTS

**Car Budget Predictor**                                                                                            *November 2022*
Full Description | GitHub

- Developed a highly accurate linear regression model using Scikit-learn, achieving 99% accuracy by analyzing a dataset of 500 rows
- Conducted in-depth analyses of correlations among various customer attributes, including age, annual salary, and net worth, and their respective provided car budgets
- Leveraged Python libraries, such as Matplotlib and Seaborn, to create visually compelling data visualizations, facilitating easy comprehension of key insights
- Demonstrated the ability to apply advanced data analysis and machine learning techniques effectively to solve real-world problems

**Delivery Route Algorithm**                                                                                      *September 2022*
Full Description | GitHub

- Implemented an efficient greedy algorithm in Python to determine the optimal delivery route from a pool of 27 locations, prioritizing proximity and minimizing transportation costs
- Enhanced the algorithm's capabilities by integrating multiple package constraints, including delivery deadlines and truck capacity
- Achieved a 22% reduction in route distance by optimizing delivery scheduling through package consolidation

## EDUCATION

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