

# William Browning

## EDUCATION

### **Bachelor's of Science in Computer Science, 2nd Major in Math – University of Memphis**

Aug 2022 – May 2026, **GPA 3.82**

## EXPERIENCE

### **FedEx Express, Memphis, TN – Air Operations Co-Op II**

June 2025 – May 2026

- Developed AI-driven analytics and decision-support tools to improve operational efficiency and decision making within Air Operations.
- Built data pipelines and performed data engineering tasks to ingest, clean, and transform large operational and maintenance datasets
- Designed and implemented interactive dashboards and visualizations to surface reliability trends, performance metrics, and actionable insights for stakeholders
- Created lightweight web-based tools and internal applications to deliver data products to end users in an accessible, self-service format.
- Collaborated with engineers, analysts, and operations personnel to translate business and operational problems into data-driven solutions.
- Streamlined manual workflows through automation and analytics, reducing analysis time and improving decision-making accuracy

### **Center for Information Assurance, Memphis, TN – Project Member**

March 2025 – May 2025

- Supported development of a deep learning-based autonomous driving system for an R/C vehicle.
- Presented weekly updates and problems to professors and project mentor

## PROJECTS

### **AI AMM Audits – FEDEX, AIR-OPS**

- Created a tool that leverages the power of AI using a database of prompts to dynamically search for incorrect Aircraft Maintenance Manual (AMM) reference codes.  
Tools used: Python, Databricks(SQL, AI\_GEN), PowerBI

### **Ground Time Weather – FEDEX, AIR-OPS**

- Pulled in hourly NOAA weather data using FTP/API and engineered the data with flight data to study the long term impact weather has on the aircraft and their components.  
Tools used: Python, Databricks(SQL, AI\_GEN), PowerBI

## LANGUAGES/APPLICATIONS

Python | SQL | Spark | Databricks | PowerBI | PowerApps | Angular | Azure | Rails | Ruby | Javascript

CSS | HTML | Teams | Outlook | Word | PowerPoint | Excel | DAX | PowerQuery | UNIX/CLI |

## CONCEPTS

Prompt Engineering | RAG/Vector Embeddings | Classification | Data Scheduling/Pipelining | REST API's