

WILLEM TAYLOR

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA

Master of Science in Analytics

December 2022

- Track: Computational Data Analytics

Cumulative GPA: 3.86

- Coursework: Machine Learning, Analytics Modeling, Regression Analysis, Visualization, Big Data Systems

Bachelor of Science in Computer Science

May 2021

- Concentration: Intelligence and Information Internetworks

Cumulative GPA: 3.97

- Coursework: Artificial Intelligence, Data Engineering, Computer Vision, Databases

SKILLS

Programming: Python, SQL, R, Java, C/C#

Tools: Pandas, Dash, Scikit-learn, NumPy, PySpark, Selenium, BeautifulSoup, Matplotlib, Django, D3

Software: Git, Jupyter Notebook, MySQL, AWS, Android Studio, Bash, Tableau, Spark

Analytical Techniques: Visualization, Regression Analysis, Clustering, Classification, Time Series Analysis

EXPERIENCE

SLALOM

Atlanta, GA

Data Engineer Intern

May 2022 – July 2022

- Designed, developed, tested, and deployed features to a client's internal data lake application using tools such as **PySpark**, **AWS S3**, **AWS Glue**, and **Amazon Athena**

KPMG

Atlanta, GA

Data Science Intern

June 2021 – August 2021

- Built data pipeline and **Dash** visualization for securities data, identifying price outliers across 25 funds
- Identified potential features from eight social media APIs to create machine learning model to classify users
- Aggregated data to train natural language processing model to extract aspects of policy from contracts

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA

Graduate & Undergraduate Teaching Assistant

June 2020 – Present

- Taught recitations and held weekly office hours for a class of 350 students covering Object Oriented Programming in **Java** and a class of 1400 students covering programming in **Python** and **SQL** and modeling in **R**

DELTA AIR LINES

Atlanta, GA

Cargo Analytics Intern

August 2019 – December 2019

- Developed classification model in **Python** for priority level of cargo and displayed cargo breakdown order in **Dash** visualization dashboard, reducing the amount of cargo missing connecting flights
- Created and maintained **MySQL** database backing a web application tracking vehicle inspection information

PROJECTS

EMS MOBILE APP

May 2021

- Wrote **Python** script to automatically scrape hospital occupancy data for 175 hospitals every 60 seconds
- Created **Django** backend database for iOS and Android apps containing hospital data to be displayed in app

AUTOMATED BACKGROUND OBJECT REMOVAL

December 2020

- Developed algorithm in **Python** to remove unwanted objects in backgrounds of pictures using connected components to detect background objects and seam carving to replace them
- Removed and replaced background objects with 50% of results being unnoticeable to human observers