# **Kyle Rodriguez**

Houston, TX | 832-229-7423 | kylearodriguez10@gmail.com| linkedin.com/in/kyle-a-rodriguez | github.com/kyleanthonyr

#### **EDUCATION & CERTIFICATIONS**

University of Houston

• Bachelor of Science, Computer Science | GPA: 4.0

May 2025 August 2023

Bachelor of Science, Biochemistry

Springboard | Online Data Science Certificate

April 2023 - Dec. 2023

• A 9-month intensive program in data science and machine learning with 1:1 industry mentorship and hands-on projects based on real world problems.

## PROFESSIONAL EXPERIENCE

Data Science Intern, NOV | Houston, TX

Jun. 2024 - Present

- Developed and deployed custom data visualization apps using Python, Streamlit, Plotly and HTML/CSS for internal business units, enhancing data-driven decision-making.
- Containerized applications using Docker and managed deployments on AWS ECS with ECR, ensuring scalable and efficient operations.
- Leveraged SQL within Snowflake to query, retrieve and analyze relevant data for solving complex business problems.
- Applied machine learning algorithms, including clustering, classification, and forecasting, to address
  issues in supply chain management and detect fraud patterns, contributing to operational efficiency and
  cost savings.

# Data Analytics Intern, Atlas Copco | Deer Park, TX

Jan. 2024 - May 2024

- Developed dynamic Power BI dashboards for real-time fleet availability analysis, optimizing logistical planning for Vice Presidents and District Managers across North America.
- Created an internal app using Microsoft PowerApps for tracking fuel consumption related to fleet maintenance, helping to improve sustainability tracking and emissions reporting.
- Utilize SQL to extract data from internal databases and used Python for processing and transformation to support various data-driven initiatives.

#### **PROJECTS**

## **Amazon Book Recommender System | Springboard**

Nov 2023 - Dec. 2023

Tools: Python, PySpark, Jupyter Notebook, pandas, Git

- Data Preprocessing: Utilized PySpark to preprocess 51 million rows of Amazon book ratings and metadata, transforming the dataset into a format suitable for collaborative filtering.
- **Model Training**: Trained and evaluated multiple models, including SVD and k-NN, using MAE and RMSE as performance metrics; employed Grid Search for hyperparameter tuning.
- **Recommendation System**: Implemented an optimized k-NN model with the Surprise Python library, successfully generating top-n book recommendations tailored to user preferences and incorporating metadata for enhanced relevance.

### **SKILLS**

- Machine Learning: Regression, Classification, Clustering, Time-series Forecasting
- Languages: Python (pandas, NumPy, scikit-learn, TensorFlow, PySpark), SQL, C++, HTML/CSS/JS and React
- Microsoft: Power BI, PowerApps, SharePoint, Excel, SQL Server
- Cloud: AWS ECS and ECR, Snowflake, Databricks