Kyle Rodriguez

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EDUCATION & CERTIFICATIONS

University of Houston
- **Bachelor of Science, Computer Science | GPA: 4.0**   *May 2025*
- **Bachelor of Science, Biochemistry**   *August 2023*

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.

PROJECTS

Form Approval Management System | University of Houston Capstone   *Jan. 2025 – Apr. 2025*
Tools: Django, Python, PostgreSQL, Docker, AWS, Git, Microsoft SSO, GitHub Actions
- Built a backend-only Django web application for managing form approvals, including submission, review, delegation, and multi-step workflow logic.
- Designed a custom user model with Microsoft SSO authentication and role-based access (admin, vendor, approver).
- Implemented a modular, unit-based approval system with dynamic routing based on role, form type, and unit hierarchy.
- Developed delegation logic with time-bound authority transfers between approvers, supporting organizational flexibility.
- Used Django REST Framework to create APIs for users, forms, units, approvals, and delegation steps, enabling integration with future frontends.
- Containerized the app with Docker, deployed on AWS ECS, and automated CI/CD with GitHub Actions for streamlined updates.

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