

Dylan Posner

Data Scientist

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Summary

Dylan is a data scientist with 2 years of professional experience, having pioneered efficient data validation with Jupyter Notebooks, developed tools for rapid uncertainty distribution, and showcased proficiency in Python-based data extraction and visualization. All built on a solid background in agile product development and SQL data manipulation.

Experience

Booz Allen Hamilton Inc.
Data Scientist (Senior Consultant)
🔗 <https://www.boozallen.com/>

September 13, 2021 - Present

FinCen (FinLab)

- Orchestrated routine testing and validation of AWS EMR clusters, ensuring consistent and optimal performance across the FinLab platform
- Leveraged Jenkins and GitLab as part of a package installation pipeline to add approximately 20 essential PySpark and Python packages requested by beta users
- Developed a cronjob for collecting queries from the previous day and writing them to the appropriate database
- Established and tested connection to Presto, our distributed-query service, through our Hue interface
- Identified and rectified a critical vulnerability within the EMR cluster
 - Ensured uniform Python package installations across all nodes
 - Prevented future potential cluster crashes and module errors

LCMP Sentinel

- Performed data validation using Python to cross-check multiple Excel workbooks
- Developed a Jupyter Notebook that allowed the team to easily validate any new data, as well as track changes in the data to identify mismatched data points more efficiently

NASA SPEAC

- Developed a stand-alone executable tool for backing into a triangular inverse distribution which reduces the time required to develop an uncertainty distribution from weeks to a day and created a GUI for the tool using Tkinter and Tkinter-Designer
- Used PyTesseract OCR and OpenCV to detect data inside PDFs and PowerPoints to create Excel workbooks that allow our team to analyze financial performance of our project over time
 - Presented findings internally to another team, including a live demo
- Debugging and adding functionality to a large Excel macro
 - Dynamically generated a visual roadmap of upcoming program events
 - Added the ability to automatically generate a PowerPoint with the roadmap

CVAERO

- Created a demo for each of our four models that are run through a flask server on our web app (Airplane Classification, Foreign Object Classification, and two Object Detection models)
- Wrote a section for the web app about the importance of foreign object detection on runways and how we processed our data before training our model
- Created a scrollable animation, using Green Sock (GSAP), to go along with the section I wrote
- Worked with my teammate to deploy the webapp onto an AWS EC2 instance and reworked the inferencing models so they run through an AWS Lambda function

Interos, Inc.
Data Analytics Intern
🔗 <https://www.interos.ai/>

May 18, 2020 - August 26, 2020
Arlington, VA

- Quickly learned Snowflake, a cloud-based data warehouse, to manage and analyse data for several projects
- Produced a unified data schema which enabled users to quickly query a single dataset
- Led the research of all G2 project data and queried survey results to create supply chain maps
- Developed a series of SQL queries that returned relationships based on survey data
- Collaborated with manager on USASpending project to enhance our ability to replicate website data across Snowflake
- Developed a series of SQL queries in Snowflake that increased our internal data processing time by 50%

The Phoenix Team
Product Development Intern
🔗 <https://phoenixoutcomes.com/>

June 01, 2019 - August 28, 2019
Arlington, VA

- Advanced company's product design and product management by using agile product implementation
- Managed other interns to produce a white paper for Phoenix's clients about effective product management

Certifications

Python Practitioner
Booz Allen Hamilton
🔗 <https://www.credly.com/badges/2696e828-6df4-4a87-89cf-b3da203a2ab0/email>

March 17, 2023

AWS Certified Cloud Practitioner
Amazon Web Services Training and Certification
🔗 https://www.credly.com/badges/66af8ef4-a10b-42d6-aab9-c4a05db1746b?source=linked_in_profile
Expires on May 31, 2025

May 31, 2022

ICAgile Certified Professional
ICAgile
🔗 <https://www.icagile.com/credentials/1a0ba384-c3d8-42a5-95c5-b83d76dcd994>

December 07, 2021

Skills

Software Development 2 yrs ●●●○○ Java, JavaScript, Python	Database Design and Development 2 yrs ●●●○○ SQL, MySQL Workbench, Excel VBA, Microsoft Access, Hue, Snowflake	Data Analysis 2 yrs ●●●●○ NumPy, Pandas, R	Web Development 2 yrs ●●○○○ PHP, HTML, CSS, Svelte, SvelteKit
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Education

Virginia Tech
Business Information Technology

August 28, 2017 - May 16, 2021
B.S.