

# Dylan Posner

Data Scientist

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## Summary

Data Scientist with 3 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

### LCMP Sentinel

- Led development of Python, Tkinter, and Tkinter-Designer automation tool for Excel to PowerPoint, saving days of manual work.
- Maintained and optimized Tableau scripts, improving Engagement data processing and script readability.
- Processed quarterly conference survey feedback, using Python and Tableau to create visualizations that informed strategic decisions.
- Led integration of checklist data into AWS, developing a Tableau-connected Middleweight Query Tool to streamline data analysis.
- Developed PowerPoint decks for weekly meetings, facilitating clear and effective team communication.

### 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 [Surge Support]

- 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](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

<b>Software Development</b> 3 yrs ●●●○○ Java, JavaScript, Python, Tkinter	<b>Database Design and Development</b> 3 yrs ●●●○○ SQL, MySQL Workbench, Excel VBA, Microsoft Access, Hue, Snowflake, AWS	<b>Data Analysis</b> 3 yrs ●●●●○ NumPy, Pandas, R, Tableau	<b>Web Development</b> 3 yrs ●●○○○ PHP, HTML, CSS, Svelte, SvelteKit
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## Education

**Virginia Tech**  
Business Information Technology

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