

David London

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PROFESSIONAL EXPERIENCE

BAE Systems

August 2023 - Present

Senior Engineer (Python development) | January, 2024 - Present

Fort Worth, TX

- Lead initiatives to overhaul the organization's reporting system for the F-35 aircraft health data by replacing the outdated and error-prone method of using Excel macros and Microsoft Access with a modern Python-based system
- Utilized Typer framework to develop robust CLI functionalities incorporating extensive API calls using the Requests package, alongside efficient data manipulation using NumPy and Pandas
- Implemented comprehensive test suites with pytest, leveraging fixtures, parameterization, and the responses package for seamless simulation of API interactions
- Developed a Django and Django Rest Framework application to simulate and manage test data, enabling comprehensive testing of CLI functionalities in absence of direct access to the REST API of the main application
- Implemented a Python program utilizing Pandas to merge flight data from various sources, employing complex algorithms to automate the process and eliminate the need for manual data matching, resulting in significant time savings for the company
- Independently executed the deployment and configuration of a Java Spring enterprise application and PostgreSQL database on a secure, offline RHEL server, using knowledge of linux administration, computer networking, and database management

Engineer II | August, 2023 - December, 2023

Fort Worth, TX

- Quickly mastered the F-35 reporting process allowing me to expedite project impact with development of Python solutions
- Engineered an intuitive application using Flask and Plotly Dash to visualize flight data for signal analysis and verification, significantly accelerating our data analysis capabilities and enabling efficient processing of large datasets
- Engineered a Python-based verification platform that automated data ingestion, analysis, and report generation, ensuring the precision and reliability of our new reporting approach
- Helped write F-35 structural health reports for multiple international F-35 fleets using comprehensive knowledge of the teams tools and processes

srcLogic, LLC

August 2019 - September 2021

Consultant

Vienna, Virginia

- Designed an application to establish government wide communication and knowledge sharing between agencies
- Developed backend architecture including APIs, workflows, automated testing, UI, database calls, end user reports

CERTIFICATIONS AND PROJECTS

AWS Certified Data Engineer

May 2024 - May 2027

Validation Number: 8be628da8d804802bcfa4baf1f836a1f

Knowledge in core data-related AWS services including data transformation, data pipelines, storage, and security using AWS services such as S3, Redshift, Glue, and EMR

Trip Tracker

December 2024 - Present

Developed and deployed a platform for efficient trip planning, tracking, and sharing using Django, Django REST Framework, and React. Development work included ORM and serialization, secure token authentication, and a responsive UI with Bootstrap MDB, Axios, and Leaflet

SKILLS

Python: Pandas, Numpy, OpenPyXL, Plotly, Plotly Dash, Matplotlib, Flask, Django, Django REST Framework, Pytest, Requests, Responses, Typer

Javascript: React, Bootstrap (MDB Bootstrap), Axios, Leaflet

Misc: Java, Java Spring, Matlab, SQL, RESTful APIs, HTML, CSS, Git, Word, Excel, RHEL Linux

EDUCATION

University of Maryland, College Park, Maryland, United States

Bachelor of Science, Aerospace Engineering

May 2019

- Cumulative GPA: 3.9/4.0
- University Honors, Aerospace Honors, Undergraduate Research Assistant