
EDUCATION

- **University of Virginia** Charlottesville, VA
B.A. Computer Science, B.A. Statistics; Echols Scholar Aug 2018-May 2021

EXPERIENCE

- **ManTech** Herndon, VA
ETL/Data Engineer November 2024-Present
 - **Customer: US Government, IC:** Supporting a cybersecurity group that provides a platform for cyber assessments of systems.
 - **ETL work:** Supported a team developing and maintaining modularized python ETL pipelines for parsing cybersecurity scans and reports for the customer. Developed the module for parsing Titania Nipper reports for ingest into a cyber assessment platform.
 - **Postgres Database:** Developed scripts to help cleanup inefficiencies within the database and assist with customer interaction with UI components dependent on the database.
 - **Cybersecurity Scanning tools:** Research and develop custom Velociraptor Artifacts to assist with extracting relevant system info for determining cybersecurity compliance of assets and devices.
- **General Dynamics Information Technology (GDIT)** McLean, VA
ETL/Data Engineer October 2023-November 2024
 - **Customer: US Government, IC:** Supporting a mission group with a focus on building and maintaining ETL pipelines for a live data feed into an Oracle Database and secondary Postgres Database for downstream customer use.
 - **ETL pipelines:** Built and maintained Python ETL pipelines utilizing an async.io framework to ingest data from Kafka topics for data transformation to output into Oracle and Postgres databases as part of a migration from a Pentaho-based ETL framework to Python and Kubernetes centered framework and architecture.
 - **Neo4j:** Refactored and improved a custom FastAPI application to feed data into a Neo4j application for visualization of all ETL processes and data flow for the customer.
- **General Dynamics Information Technology (GDIT)** McLean, VA
Cloud Developer/Engineer September 2022-October 2023
 - **Customer: US Government, IC:** Supporting a business and data analytics team, worked with other developers to maintain the technical and cloud infrastructure for data analysts and data scientists. The cloud stack consists of AWS RDS database running Oracle, various applications on EC2 instances, and S3 buckets as a secondary storage.
 - **Automation: Scripting:** Using python scripts, automated multiple tasks through web scraping to ingest scraped into our database for use downstream by the data scientists. The scripts utilized Selenium WebDriver to dynamically scrape the data, then formatted into pandas dataframes and written into a table within the database.
 - **Data integrity:** As a monthly task, validated the data in various tables of our database through a python script utilizing SQL queries through packages such as cx_Oracle and changed any values that were flagged by the script.
- **Accenture LLP** Boston, MA/Remote
Frontend Developer/Product Delivery Lead July 2021-September 2022
- **Core One** Sterling, VA
Intern: Software Development Summer 2020

SKILLS

- **AWS Cloud Practitioner Certification**
- **Languages(In order of proficiency):** Python, SQL(Oracle and Postgres)
- **Technologies:** Rundeck, Jenkins, Rancher (Kubernetes) Jira, Agile methodologies, GitLab, Concourse CI/CD, Google Cloud (BigQuery, Kubernetes), Docker, AWS
- **Other:** Chinese-Fluent