

# Stephen Brock

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Baltimore, Maryland

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## SOFTWARE ENGINEER | DATA ENGINEER | DATA ANALYST

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Versatile software engineer with 6+ years of experience in software engineering and data analytics. Skilled in developing and maintaining microservices, RESTful APIs, and data analytics dashboards. Proficient in SQL and database management with experience working with various databases including PostgreSQL, T-SQL, and PL/SQL. Hands-on experience working in cloud environments. Passionate about leveraging technology to solve complex business problems.

## TECHNICAL SKILLS

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**Environments** : Python, VBA, AWS (S3, EC2, Athena), Databricks  
**Visualization** : Tableau, PowerBI, Plotly Dash  
**Databases** : PostgreSQL, T-SQL, PL/SQL  
**Dev Tools** : Pycharm, Git, Gitlab, Microsoft Excel, Microsoft Access

## EXPERIENCE

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### Software Product Analyst

Hertz

07/2023-01/2024

Baltimore, Maryland

- Built a framework for A/B testing of rental car pricing, with a data pipeline involving AWS S3, Databricks and Tableau.
- Developed a Tableau dashboard to display A/B test results and KPIs for senior leadership.
- Gathered, analyzed, and transformed large sets of transaction and fleet data into business models using SQL.
- Lead the data science team's transition to Databricks and onboarded colleagues on useful features.

### Software Engineer

MediGO, Inc.

03/2022-05/2023

Baltimore, Maryland

- Developed and maintained micro services including a Flask RESTful API, asynchronous celery task queue, and an event-driven notification service to facilitate tracking of organ shipments.
- Created unit and functional tests in Pytest to identify bugs and ensure stable releases to production.
- Conducted exploratory data analysis using SQL and Python to identify and resolve telemetry data issues in production environments.
- Designed and implemented updates to database schema via Alembic migrations.
- Assisted in a refactoring effort to clean up old test suites and legacy code to improve application performance.
- Designed and implemented a data analytics dashboard to analyze shipment trends and facilitate external reporting processes.
- Spearheaded the implementation of OpenAPI/Swagger documentation to enhance transparency and collaboration between the engineering and QA teams.

### Software Developer

Wells Fargo Bank, N.A.

06/2017-03/2022

Columbia, Maryland

- Designed and built dashboards to monitor current and past production, employee/product performance KPIs, and team resource allocation.
- Developed and tested complex SQL queries and stored procedures to increase efficiency and accuracy of the monthly CLO data validation and reporting process.
- Developed ad-hoc SQL queries and reports to support line of business and product owner requests.
- Streamlined multiple operational and ETL processes using VBA and SQL that resulted in significant FTE reduction.

## EDUCATION

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### Towson University

Bachelor of Science in Applied Mathematics

Towson, Maryland

May 2017