

Stephen Brock

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Baltimore, Maryland

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SOFTWARE ENGINEER | DATA ANALYST

Versatile software engineer with a wide range of experience in software engineering, data analytics, process improvement, and business intelligence. 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. Experience in using Git and GitLab for CI/CD. Passionate about leveraging technology to solve complex business problems.

TECHNICAL SKILLS

Environments : Python, Visual Basic for Applications (VBA), Amazon Web Services (AWS) - EC2
Visualization : Tableau, PowerBI, Plotly Dash
Databases : PostgreSQL, T-SQL, PL/SQL
Dev Tools : Pycharm, Git, Gitlab, Microsoft Excel, Microsoft Access

EXPERIENCE

Software Engineer

MediGO, Inc.

March 2022 - May 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 schemas 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.

Jun 2017 - March 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 the efficiency and accuracy of the monthly data validation and reporting process.
- Performed ad-hoc SQL querying and reporting to support line of business and product owner requests.
- Innovated non-Excel-based data validation solutions utilizing Python and SQL to meet enterprise-level EUCT reduction initiatives.
- Streamlined multiple operational and ETL processes using VBA and SQL that resulted in significant FTE reduction.

EDUCATION

Towson University

Bachelor of Science in Applied Mathematics

Towson, Maryland

May 2017