James Bryce Settles

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Portfolio Site: https://eyefixcode.github.io/ | GitHub: https://github.com/eyefixcode

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SUMMARY

Passionate about leveraging data for businesses to support data-driven decisions. Proven expertise in Python, SQL, and R for automation, database management, clinical assays and KPI dashboard creation. Experienced in launching exploratory data mining studies, SQL query construction, and cloud-based dashboard curation for KPI data visualization. Always committed to opportunities making positive impacts on communities through health equity promotion and disparity reduction.

CORE COMPETENCIES

Python	R/R-Shiny App	SQL (SSMS/Oracle/SQLite)
MS Office (Access/Excel VBA)	SPSS	PostMan API
MS PowerPlatform (Power BI/)	GitHub	Business Intelligence Tools
KPI Data Reporting	SharePoint	Windows (PowerShell/CMD)

EDUCATION

(In-progress) **University of Southern California (Keck School of Medicine)** – Master's in Public Health (MPH)

- o Concentration in Biostatistics and Epidemiology

(May 2019) **Virginia Commonwealth University** - Bachelor of Science (BS) in Biology

- o Minored in Chemistry

PROFESSIONAL EXPERIENCE

(Feb 2022 — Jan 2023)   **Curative Inc. — Systems Engineer (Systems Engineering)**
- o Developed automated scripts to enhance RT-PCR and NGS laboratory platforms.
- o Analyzed retroactive disease incidence data for COVID-19 and Monkeypox to inform data-driven business decisions.
- o Routinely queried from SQL databases and illustrated data in cloud-based dashboards through use of a variety of business intelligence tools.
- o Developed a virtual simulation agent-based model to illustrate staffing needs and calculate FTEs for stakeholders.

(Nov 2019 — Feb 2022)   **PPD Inc. part of ThermoFisher Scientific — Scientist, Automation Specialist (Vaccine Sciences Department)**
- o Deployed an exploratory data-mining study via python study to gain insight from instrument utilization time and extract error occurrences from logfiles, stored via local SQLite database.
- o Develop SQL queries to gain insights into lab production and investigations for lab directors.
- o Created cloud-based dashboards through Microsoft Power Platform business intelligence tools (PowerBI/PowerAutomate/SharePoint) for displaying KPIs to lab management.
- o Implemented VBA macros for repetitive processes to maximize workplace efficiency.

o Constructed, debugged, and enhanced multiple scripts for automation via robotic liquid handler. Validated scripts for clinical use via Python, SQL, and vendor supplied software.
o Upheld meticulous documentation and software version control practices.

(Jan 2019 — Jun 2019) **VCU — Research Assistant**

o Collaborated with local researchers at the Science Museum of Virginia to design a study within Richmond, VA that would analyze spatial variation in local air quality.
o Accomplished through the placement of multiple portable air quality monitors which collected particulate matter measurements ($PM \leq 2.5\mu m$).

AWARDS

PPD Inc. part of ThermoFisher Scientific

(Feb 2021) Award Recipient as part of the MODERNA team which exemplified exceptional performance in the automation assay development, validation, and production to expedite the rate of clinical trials assessing COVID-19 vaccine efficacy for SARS-COV-2/Omicron variants.

ORGANIZATIONS

(Jun 2022 – Present) **Society for Laboratory Automation and Screening (SLAS)**
(Jan 2023 – Present) **American Society for Microbiology (ASM)** – Student Member

PROFESSIONAL QUALIFICATIONS

(May 2021) **HAMILTON Company** – Venus Software Development Training

VOLUNTEER WORK

VCU MCV Hospital
    (May 2017 – Aug 2017) Surgical Trauma Intensive Care Unit Assistant
    (Jan 2019 – Jun 2019) Massey Cancer Center Resource Library Assistant

Mary Washington Hospital
    (May 2016 – Aug 2016) Orthopedic Surgery Physical Therapy Assistant

VCU Office of Sustainability
    (Jan 2016 – Jun 2016) VCU Monroe Park Campus Garden and Green Wall Construction