

James Bryce Settles

Data Scientist | Los Angeles, CA ▪ Settles.James.B@gmail.com ▪ (540) 479-7087

Linkedin: <https://www.linkedin.com/in/james-bryce-settles-99675013a/>

Portfolio Site: <https://eyefixcode.github.io/>

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. Prior experience in launching exploratory data mining study for informed decision-making, SQL query development, and cloud-based dashboard curation for KPI data visualization. Always committed to making positive impacts on communities through health equity 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)

- Concentration in Biostatistics and Epidemiology

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

- Minored in Chemistry

PROFESSIONAL EXPERIENCE

(Feb 2022 — Jan 2023) **Curative Inc. — Systems Engineer (Systems Engineering)**

- Optimized lab workflows and developed automated scripts which enhanced RT-PCR and NGS platforms.
- Analyzed retroactive public and internal disease data to inform data-driven business decisions.
- Routinely queried results from SQL-based database and illustrated results in cloud-based dashboards.
- Developed virtual simulations via agent-based model to illustrate staffing needs and calculate FTEs.

(Nov 2019 — Feb 2022) **PPD Inc. part of ThermoFisher Scientific — Scientist, Automation Specialist (Vaccine Sciences Department)**

- Deployed an exploratory data-mining study via python study to extract lab instrument time utilization and error occurrences from logfiles into local SQLite database.
- Develop native SQL queries to gain insights into lab production and investigations for PI.
- Created cloud-based dashboards displaying KPIs for lab management.
- Implemented VBA macros for day-to-day repetitive processes to maximize efficiency.

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- Constructed, debugged, and enhanced multiple scripts for robotic liquid handler in serology-department validated for clinical use through use of Python, SQL, and vendor software.
 - Upheld meticulous documentation and software version control practices.

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

- 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.
- This was accomplished through the placement of 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 and 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

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References available upon request.