James Bryce Settles

Data Scientist | Los Angeles, CA ▪ settles.james.b@gmail.com ▪ (540) 479-7087
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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. My tech stack proficiencies include Python, SQL, and R for solving automation related tasks, database management, and dashboard development.

Experienced in data analysis, deploying data mining studies, querying databases, and curating cloud-based dashboard for data visualization of KPIs and other metrics.

Always eager to explore opportunities making positive community impacts through health equity promotion and disparity reduction.

PROFESSIONAL EXPERIENCE

(Feb 2022 – Jan 2023) **Curative Inc. — Systems Engineer (Systems Engineering)**
- Developed scripts to enhance automation of RT-PCR and NGS laboratory platforms.
- Analyzed sources of disease data to inform laboratory expansion business decisions for COVID-19 and Monkeypox.
- Routinely queried database via SQL and illustrated results in cloud-based dashboards.
- Developed agent-based model to convey staff needs and calculate FTEs.

(Nov 2019 – Feb 2022) **ThermoFisher Scientific — Scientist, Automation Specialist (Vaccine Sciences Department)**
- Deployed data-mining study via python to gain insights from lab instrument utilization time and extract error occurrences from logfiles.
- Crafted SQL queries on lab production and sample investigations for stakeholders.
- Created cloud-based dashboards via Microsoft Power Platform (PowerBI, PowerAutomate, Sharepoint) for displaying KPIs to lab management and automating workflows.
- Developed VBA macros to improve routine procedures and efficiency.
- Constructed and validated scripts for clinical use via Python, SQL, and vendor supplied software, while maintaining appropriate software version control practices.

(Jan 2019 – Jun 2019) **VCU — Research Assistant**
- Collaborated with researchers at the Science Museum of Virginia to design a longitudinal observational study within Richmond, VA to analyze variation in local air quality.
- Deployed portable air quality devices that measured particulate matter (PM $\leq 2.5\mu$m).

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
- Chemistry Minor

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CORE COMPETENCIES

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

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)**

PROFESSIONAL QUALIFICATIONS

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

VOLUNTEER WORK

VCU MCV Hospital
      (May 2017 – Aug 2017)   Surgical Trauma ICU Assistant
      (Jan 2019 – Jun 2019)   Massey Cancer Center Library Assistant

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

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