

# 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/> | 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 (PowerBI)	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)**

- Developed automated scripts to enhance RT-PCR and NGS laboratory platforms.
- Analyzed retroactive disease incidence data for COVID-19 and Monkeypox to inform data-driven business decisions.
- Routinely queried from SQL databases and illustrated data in cloud-based dashboards through use of a variety of business intelligence tools.
- 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)**

- 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.
- Develop SQL queries to gain insights into lab production and investigations for lab directors.
- Created cloud-based dashboards through Microsoft Power Platform business intelligence tools (PowerBI/PowerAutomate/SharePoint) for displaying KPIs to lab management.
- Implemented VBA macros for repetitive processes to maximize workplace efficiency.

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- Constructed, debugged, and enhanced multiple scripts for automation via robotic liquid handler. Validated scripts for clinical use via Python, SQL, and vendor supplied 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.
- 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