

James Settles

Automation Engineer | 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>

SUMMARY

Passionate about advancing automation and leveraging data to drive innovation, I have a proven track record of developing, validating, and maintaining automated lab software solutions for serology and molecular assays. With 4 years of software development experience, I have worked with multiple lab automation systems, including the Hamilton MicroLab STAR.

My tech stack includes open-source tools such as Python, SQL, and R. I am experienced in integrating LIMS databases with automated liquid handling systems, optimizing clinical assay workflows, and developing KPI dashboards for both technical and non-technical audiences.

PROFESSIONAL EXPERIENCE

(Sep 2024 – Present) **SC CTSI — Research Data Analyst Intern (Community Engagement)**

- Optimized data management, cleaning, and transformation processes for Diabetes Prevention, Control, and Management program supporting medically underserved communities in Los Angeles

(Jan 2023 – Present) **Curative/Exagen — Automation Engineer Consultant (Proteomics)**

- Transferred manual ELISA for proteomics organ damage study to Hamilton STARlet platform to enhance assay precision, repeatability, and workflow efficiency
- Advised on all automation matters surrounding Hamilton STARlet script development, system troubleshooting, and system setup and relocation

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

- Deployed python shell script to allow Hamilton to execute HTTP requests to LIMS database
- Optimized lab workflows and developed automated RT-PCR and NGS workflows on Hamilton STAR/STARlet
- Analyzed sources of disease data to inform laboratory expansion business decisions for COVID-19 and Monkeypox
- Created agent-based model with NetLogo to visualize staffing needs and FTE calculations

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

- Validated and co-developed 6 Hamilton STAR serology scripts for clinical use
- Deployed data-mining python shell script to extract lab automation equipment time utilization and error occurrences from logfiles
- Crafted SQL queries to gather insights on lab production and sample investigations
- Lead development of 3 cloud-based PowerBI dashboards for stakeholders
- Created 2 VBA macros to track freeze/thaw cycles and improve sample storage practices

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

- Co-developed a longitudinal study in Richmond, Virginia alongside to analyze air quality by deployment of 8 devices measuring spatial variation in particulate matter ($PM \leq 2.5\mu m$)

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EDUCATION

(Aug 2025) **University of Southern California** – Master’s in Public Health (MPH) –
Concentration: Biostatistics and Epidemiology

- GPA: 3.81

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

- Chemistry Minor

CORE COMPETENCIES

Python	R/R-Shiny	SQL
SAS	STATA	SPSS
Excel VBA	PostMan API	GitHub
PowerBI	Bash	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 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

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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