COLTON ROBBINS

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EXPERIENCE

FRED HUTCHINSON CANCER CENTER, Seattle, WA

Research Analyst, March 2023 – January 2024

- Implemented machine learning algorithms on biological datasets to identify biomarkers for early detection of disease progression.
- Automated routine data processing tasks using Python and R, reducing processing time by 80% and boosting data reliability.
- Designed interactive dashboards with Tableau and Looker Studio to visualize experimental data trends and findings, significantly improving stakeholder report accessibility.
- Utilized workflow management software to automate large dataset processing on Linux-based cloud computing systems.

NANOSTRING TECHNOLOGIES, Seattle, WA

Computational Biologist, December 2021 – November 2022

- Engineered and deployed cloud-based SQL database for real-time high-throughput quality control metrics, allowing for daily reorganization.
- Presented key experimental findings at weekly team meetings and quarterly departmental reviews using interactive Tableau and Looker Studio dashboards.
- Automated experimental data flow and analysis pipelines, increasing data throughput and reducing data handling errors in complex datasets.
- Conducted robust sensitivity/specificity statistical analysis to optimize the parameters of molecular assays, which increased the consistency and reproducibility of experimental results.

WASHINGTON STATE UNIVERSITY, Pullman, WA

Molecular Biologist, September 2019 – August 2021

- Developed a novel classification pipeline to segment and analyze cell populations.
- Utilized statistical tools like NumPy and Pandas to analyze large biological data sets.
- Employed data viz tools like Seaborn and Plotly to convey significant findings in weekly meetings.
- Enhanced data collection protocols by integrating automated cell counting software, improving data accuracy and reducing manual data entry errors.
- Designed and implemented a cloud-based lab inventory system that streamlined the tracking, ordering, and management of lab supplies, reducing overhead costs by 15% and improving inventory accuracy.

OBJECTIVE

Experienced research scientist transitioning to data analytics, with extensive experience in managing large datasets, advanced statistical analysis, and software development. Skilled in Python, SQL, and data visualization tools with a proven track record of data-informed decision-making.

EDUCATION

Master of Science (M.S)
Molecular Biology
Washington State University, Pullman, WA

Bachelor of Science (B.S)
Biochemistry
magna cum laude
Washington State University, Pullman, WA

TECHNICAL SKILLS

Data visualization
Tableau and Looker
Statistics
Linear regression, Principle component, Data cleaning, Hypothesis testing
Programing
SQL, Python, R, Git, Linux, Cloud computing
Communication
Department updates, Stakeholder , Report summarization