**DYLAN RENARD**

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**education**

**Johns Hopkins University,** Baltimore, MD Expected June 2026

**M.S. , Bioinformatics**

* Computational Drug Discovery, Algorithms for Bioinformatics and Epigenetics
* A passion for Computational Chemistry, cheminformatics (QSAR) and Protein Bioinformatics

**University of Washington,** Seattle, WA Graduated June 2023

**B.A. , Biochemistry, Minor in Data Science**

* Taught Intermediate Python Data Programming as a TA (Numpy and Pandas)
* Developed Coding skills through numerous Paul Allen Computer Science electives
* Gained fundamental understanding of interplay between Biology & Chemistry

**specialized skills**

* Computational Drug Discovery: RDKIT, PYMOL3D, QSAR, PDB, ChemDraw, NMR
* Sequencing Analysis: Galaxy, BLAST, Bioconductor
* Data Science Pipelines: Cronjobs, Nextflow, AWS Lambda/EC2/S3, Azure DB, Git, Power Automate
* Data Visualization: Shiny, P5JS, Tableau, PowerBI
* Software Tools: Python, R, SQL, Java, Shell-scripting

**experience**

**BRUKER SPATIAL BIOLOGY,** Bothell, WA 2023 - Present

**Instrument Production Associate**

* Gained an understanding of spatial biology data analysis as well as engineering of Nanostring's family of bioinformatics instruments through hands on experience.
* Created an action plan with quality, engineering and planning groups to design improvements to inventory tracking for CosMx instruments, helping save organizational costs through reduced rate of production stoppages, increased on hand stocking level visibility and man hours saved in investigating discrepancies.
* Utilized SAP and Microsoft Dynamics NAV for goods receipts and forecasting of domestic/international shipments for spatial biology products.

**SERES THERAPEUTICS,** Cambridge, MA 2023 - 2023

**Biotechnology Data Analyst Co-Op**

* Developed and managed an assay data automation pipeline for pre-calculating reagent quantities on a 384 well plate for generating a microbiome consortium.
* Designed a modular web hosted R-Shiny dashboard to track sample quality across 18 customizable metrics, to communicate complex scientific findings to both technical and non-technical stakeholders.
* Leveraged models to identify laboratory temperature fluctuations during summer were directly correlated with decreases in sample quality in the Cambridge Lab amid reagent lots and 16 other potential indicators.

**SEATTLE FLU STUDY, BROTMAN BATY INSTITUTE,** Seattle, WA 2021 - 2023

**Student Data Analytics Lead**

* Built and trained a team of 9 undergraduate and graduate student developers in clinical data analytics projects.
* Extracted and cleaned API data from Google Sheets, USPS, Ship Station, and REDCAP to see Covid19 positivity in King and Pierce Counties, reducing shipping errors by 50% through identifying a common trend in false trip orders.
* Maintained 5-8+ key flu dashboards using Amazon Web Services, Linux Crontab and Tableau Server tools.