

Trang Ly

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EDUCATION

Virginia Commonwealth University, Center for Biological Data Science

Richmond, VA

- *M.S., Biological Data Science*

May 2024

Virginia Commonwealth University, School of Humanities and Sciences

Richmond, VA

- *B.S., Interdisciplinary Science (Biology), minor in Chemistry*

May 2022

SKILLS

Programming & Scripting: Python, SQL (PostgreSQL), R, Bash/Zsh, Linux

System & Tools: Linux Command Line, Jupyter Notebook, Pandas, NumPy, Scikit-learn, TensorFlow

Technical Competencies: Data Integrity, Workflow Automation, System Documentation, Account/Access Management, Project Management, Problem-Solving

PROFESSIONAL EXPERIENCE

Operations Administrator

Falls Church, VA

HNJ Group.

September 2024 – Present

- Promoted from a customer-facing role to support executive operations.
- Provide front-line support by managing accounts, resolving reporting errors, and correcting data issues to keep business systems accurate and accessible.
- Conduct multi-location audits of payroll, financial, and marketing systems, pinpointing discrepancies and implementing updates to improve data accuracy and overall performance.
- Manage contractor activities by reviewing data submissions, validating metrics, and ensuring consistent adherence to operational procedures.

Research Data Intern

Richmond, VA

Virginia Commonwealth University, Center for Biological Data Science

May 2023 – May 2024

- Designed and maintained a Python-based data pipeline to process and analyze large-scale datasets, focusing on improving performance and automating manual workflows.
- Utilized Linux cluster computing resources to parallelize data processing tasks, significantly improving the efficiency of data transformations and analyses on a 120 GB genomic dataset.
- Applied regression analysis to interpret trends within the dataset, uncovering significant patterns that informed strategic research decisions and contributed to key insights.

Database Analyst

Richmond, VA

Virginia Commonwealth University, Life Sciences

January 2023 – June 2023

- Developed Python scripts to streamline data extraction and integration processes for the Reptile Database (<http://www.reptile-database.org>), improving the accuracy and efficiency of species information updates.
- Implemented data mining techniques to clean, validate, and structure large volumes of unstructured data, facilitating more reliable and comprehensive species classification.
- Applied machine learning algorithms to identify and classify passages in multiple languages, enhancing the database's capability to integrate and organize multilingual information effectively.

Research Laboratory Technician

Richmond, VA

Virginia Commonwealth University, College of Engineering

September 2021 – May 2022

- Administered anesthetics and performed surgical procedures on mice, adhering to ethical standards and ensuring precise handling.
- Performed bone extraction to obtain cells for immunological studies, supporting research on cellular functions.