

Nicholas Lee

Monroe, WA • +1 425-420-7223 • nicklee0101@gmail.com • linkedin.com/in/leen01 • leen01.github.io/portfolio/

Innovative, and collaborative, with a diverse skillset in molecular biology and data science to drive product development through rigorous experimentation. Effective communication with stakeholders, metric identification, and user story collection. Excellent customer service skills, skilled in improving data sharing between departments.

WORK EXPERIENCE

Seattle Children's Research Institute • Seattle, WA, USA

Data Scientist • Full-time

Jun 2024 - Present

- Developed comprehensive documentation for FAIR data management standards and data ecosystems (e.g., REDCap, LabKey, NIH public repositories, and ontologies) to facilitate data sharing across consortiums, utilizing GitHub Pages with Markdown, HTML, CSS, and Ruby.
- Curated and prepared sequencing and microscopy datasets for public release, supporting the NIH's FAIR data sharing initiative and advancing reproducibility in scientific research.
- Designed metadata templates aligned with data models from four distinct repositories and established biomedical ontologies to ensure interoperability across systems and collaboration between five institutions.

Sage Bionetworks • Seattle, WA

Biomedical Data Curator • Full-time

Mar 2023 - May 2024

- Processing, cleansing, and verifying the integrity of data used for analysis from 10+ institutions and 20+ contributors across the world for four data-sharing portals to advance translational research for Alzheimer's treatments.
- Transforming, cleaning, and annotating 500,000+ files containing sensitive Personally Identifiable Information (PII) following Findability, Accessibility, Interoperability, and Reusability (FAIR) principles in secured AWS EC2 instances to share on four NIH-funded projects.
- Designed the data model for the Exceptional Longevity (EL) portal ensuring metadata harmonization and improving data discoverability on the publicly available portal.

Seagen • Bothell, WA

Research Analyst II • Full-time

Mar 2022 - Feb 2023

- Aided in the study design and implementation of 20+ multiparameter experiments characterizing new therapeutic candidates to advance them from proof of concept to preclinical testing.
- Deployed R Shiny dashboard that democratized 5 years of protein pharmacokinetic and pharmacodynamic experiments to empower the research department to make data-driven decisions for therapeutics

Ramparts Bioscience Inc. • Monrovia, CA, USA

Data Engineer And Solutions Architect Consultant • Part-time

Feb 2022 - Jul 2022

- Developed reporting tools in Python and scalable PostgreSQL database architecture to track metrics in preclinical studies involving 5 departments
- Centralized data reporting and automated routine analysis by creating ETL pipelines using R, Python, and SQL to extract metrics from machine files into a PostgreSQL database and PowerBi dashboards improving cross-department collaboration.

Senior Research Analyst • Full-time

Sep 2021 - Jan 2022

- Created PowerBi dashboard to track 10+ key metrics related to product performance over time to detect product drift and expiration leading to improved product designs.
- Devised A/B experimentation that saved 11 days on 2-week-long routine processes and improved product yield by 50%.

Research Associate I • Full-time

Aug 2020 - Sep 2021

- Implemented scalable database schema in Benchling, an electronic notebook software, training for 20+ employees, to document 100+ experiments and record 2000+ metrics on novel therapeutic for drug products.
- Automated experiment setup and reporting for 5 different routine experiments using custom Excel templates and R scripting reducing hands-on time by 90%.

Bristol Myers Squibb • Seattle, WA, USA**Analytical Research Associate** • Full-time

Jan 2020 - Jul 2020

- Created reports of 20+ key metrics from multiple high-throughput molecular experiments, 400+ samples/week to support research and quality assurance studies for Abecma (ide-cel) and Breyanzi, multi-million-dollar chimeric antigen receptor (CAR) T cell therapies.

EDUCATION

University Of California**Masters in Information and Data Science** • Berkeley

Jan 2022 - Aug 2023

Seattle Pacific University**Minor in Chemistry** • Seattle, WA

Sep 2015 - Dec 2019

Bachelor of Science in Cellular And Molecular Biology • Seattle, WA

Sep 2015 - Mar 2019

CERTIFICATIONS

Certified Cloud Practitioner

Nov 2023 - Nov 2026

AWS

VOLUNTEERING & LEADERSHIP

Seattle Childrens

Oct 2016 - May 2017

Child Life Volunteer • Seattle, WA

- Working with the child life department to provide a companion for children for one to two hours in the evenings on Thursday.
- Delivering toys by request to their respective rooms. Maintaining a safe environment for children to play in the playroom.

Evergreen Health

Dec 2013 - Jan 2016

Front Desk Receptionist • Kirkland, WA

- Provided exceptional customer service by assisting patients to appointments and guiding loved ones through the hospital with care and professionalism.
- Operating under HIPAA compliance to check-in patients for surgery and coordinate with the Pre- and Post-Anesthesia care units to for patient care.

SKILLS

- **Analytics:** A/B Experimental Design, Data Visualization, Exploratory Data Analysis, Hypothesis Testing
- **Data Engineering:** Data Governance, Data ontology, Data Validation, Data Wrangling, FAIR principles, PostgreSQL, SQL
- **Programming:** AWS, Bash, Docker, Github, JMP, JSON, Microsoft Office 365, Power BI, Python, R, RESTful API, Shiny, Snowflake, Tableau, Web Scraping

- **Pharmaceutical:** Benchling, Drug Development, Electronic Laboratory Notebooks, FDA 21 CFR Part 11, GLP, HIPPA, Pharmaceutical Development, Product Development, Quantitative Research, SOP Development, Statistical Analysis
- **Soft Skills:** Cross department collaboration, Self Starter, Teamwork