

SOFTWARE ENGINEER & DATA ANALYST

CORE COMPETENCIES: Python • C++ • SQL • JS • Pytorch • Matlab • Ruby • Shell • Java • HTML • R • Django • ML • Jupyterlab • Numpy • Pandas • XLS & Spreadsheets • Databases & Data Warehousing • Data Querying & Visualization • Automation • GMP Environments • Tableau • Agile • JIRA • Confluence • Lucidchart • Linux • Cross-Functional Team • I2C

PROFESSIONAL EXPERIENCE

Scale.ai: Remote/Contracting

Present

AI Data Science Consultant / Quality Assurance Engineer

- **Engineer complex analytical solutions**, to solve problems related to data generation, visualization, and machine learning on a wide variety of projects dedicated to the progression of advanced LLMs.
- **Oversee creation, labeling, and delivery of large data for language models**, engineered with customer use cases in mind while ensuring quality thresholds are met.
- **Program embedded solutions using development boards**, such as Raspberry Pi, ESP32, and Jetson, for Large Language Model Training.

BIOPHARMAGUY: Remote/Contracting

2021 – 2023

Contract Data Engineer

- **Develop and implement advanced web scraping applications using Python.** This automation led to a significant reduction in manual processing time and errors, ensuring more accurate and reliable data for client projects.

LGC BIOSEARCH TECHNOLOGIES: Petaluma, CA

2022 – 2023

GMP Quality Assurance Engineer/Manufacturing Technician

- **Excelled in troubleshooting complex technical machinery**, leading to a 20% reduction in equipment downtime. Developed software to automate electronic testing of manufacturing equipment. Implemented an automatic downtime system which would inform technicians when machinery was experiencing technical issues.
- **Followed network protocols when promptly resolving network and computer-related issues** in laboratory settings, ensuring a 99% uptime for critical systems.
- **Meticulously reviewed batch records for medical-grade DNA used in gene therapy.** Identifying and addressing data patterns to reduce common errors. Engineered automatic database queries and analysis of manufacturing records with SQL and Python, resulting in an improvement in data accuracy.
- **Programmed automated liquid handling scripts.** Automated laborious tasks with C, C++, and Python to speed up the delivery of mission critical oligonucleotides. Deployed software programs for robotic handlers in a quality controlled GMP environment, ensuring all regulations were strictly adhered to.

WASHINGTON STATE UNIVERSITY: Pullman, CA

2019 – 2022

Research Assistant

- **Assisted with the design and implementation of novel genetic tracking tool using SQL Server**, contributing to an increase in research efficiency and accuracy.

EDUCATION & CERTIFICATIONS

UNIVERSITY OF COLORADO BOULDER: Boulder, CO

Master of Science (M.S.) Degree in Computer Science – *Expected Graduation 2025*

STANFORD UNIVERSITY: Stanford, CA

Database Certification – Relational Databases & SQL

UNIVERSITY OF COLORADO BOULDER: Boulder, CO

Data Science Certification – Python and C++ Data Structures and Algorithms

WASHINGTON STATE UNIVERSITY: Pullman, WA

Bachelor of Science (B.S.) Biostatistics