

Phil McNamara

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Skills

Bioinformatics: Nextflow (nf-core), DESeq, WGCNA, Variant calling (GATK), Transcriptome annotation

Software Development: Python (Django, pandas, NumPy), R (tidyverse), Git, PostgreSQL, REST, Neo4j

Cloud Infrastructure: AWS (EC2, S3, Batch, Elastic Beanstalk, RDS), HPC (Slurm), Docker, Unix

Experience

Fauna Bio

Bioinformatics Platform Developer

October 2021 - February 2026

- Developed a Django-based web application in Python to present data analysis reports for scientists, enabling interactive exploration of key metrics, results, and readouts
- Designed and scaled containerized Nextflow pipelines on AWS, managing highly parallel sequencing workflows in the cloud
- Built and maintained a Neo4j graph database integrating public and proprietary datasets, using the Python py2neo library to support efficient streaming of batched transactions and enabling training of a graph neural network
- Interrogated sequencing datasets to identify genes of interest, applying methods such as differential expression analysis and coexpression clustering to support target discovery and hypothesis generation

Johannes Gutenberg University

Bioinformatics Research Associate

April 2019 - September 2021

- Analyzed genomic datasets to study inheritance patterns in all-female unisexual *Aspidoscelis* lizards, resolving complex data analysis challenges arising from their unique biology
- Performed computational analyses to support colleagues' projects in telomerase biogenesis and clearly explained bioinformatics methods to non-computational collaborators
- Designed an SQL database for a new inventory system, integrating internal and external data sources to improve documentation and support regulatory compliance

Seattle Cancer Care Alliance

Clinical Research Coordinator

April 2015 - June 2018

- Coordinated first-in-human Phase 1 oncology clinical trials in solid tumors and hematologic malignancies in close collaboration with medical oncologists
- Worked directly with patients during the consent process, clearly communicating research objectives and procedures

Education

University of Oregon

June 2018 - December 2019

Master of Science - Bioinformatics and Genomics

University of Washington

September 2011 - March 2015

Bachelor of Science - Molecular, Cellular, and Developmental Biology