NIKHIL YENGALA REDDY

Fremont, CA | nikhilyv@hotmail.com | rnikhil10.github.io | linkedin.com/in/nikhil-yengala-reddy-b318b1229 | (732)-662-8535

OBJECTIVE

Highly skilled and collaborative Bioinformatics Scientist with a strong background in interdisciplinary research and a passion for driving innovation in developing and supporting effective data analysis and machine learning workflows. Skilled in overseeing the development and maintenance of complex databases to support research projects. Capable of investigating and solving intricate problems with puzzling data.

EDUCATION

MS in Bioinformatics *Johns Hopkins University, Maryland*	**08/2021-05/2023**
BS in Molecular Biology, Minor Chemistry *San Jose State University, California*	**08/2018-05/2021**

RELEVANT EXPERIENCE AND PROJECTS

Florida Health| AMD Bioinformatician| Remote   **2024-Current**

Assist in the implementation of advanced bioinformatics services at the Florida Department of Health, including whole-genome sequencing analyses and custom bioinformatics pipeline development to support public health initiatives. Provide extensive remote training to public health laboratories across the Southeast region. Help manage and curate essential databases, coordinated multidisciplinary projects, and disseminated research findings through publications and reports.

Thermo Fisher Scientific | Associate Scientist | Madison, WI   **2024–2024**

Maintaining electronic laboratory notebook, performing sample preparation and analysis, SOPs, regulatory guidelines, and completion of documentation.

Research | Department of Microbiology and Bioinformatics | San Jose State University   **2020-2020**

Worked on Multidrug Resistance (MDR) genes to identify species from which they originate and to further understand the structure and mechanism through which it functions. The genes belonged to a family of proteins known as the major facilitator superfamily (MFS). Used Biopython to obtain large genomic data from PDB. The tools, such as MABL and UNIPROT, were used to understand the gene's origination through multiple sequence alignment with related species and then constructed a phylogenetic tree. Another tool such as Pymol was used to analyze the structure of MDR proteins.

VOLUNTEER EXPERIENCE

Sinai Hospital | **Baltimore, Maryland**   **2022-2023**

- Collaborated with healthcare staff to ensure smooth patient flow and efficient operations.
- Demonstrated strong communication skills while interacting with diverse patient populations.

INVOLVEMENT

BSA Advisory Board Chair and Student Member   2019-2021
Biological Student Association (BSA), San Jose State University, San Jose, CA

- BSA Advisory Board is a program run by junior and senior students designed to advise students majoring in biology
- Chair of BSA Advisory Board and served as a mentor to new and fellow students

SKILLS

Python (Pandas, Spark, Jupyter), Java, HTML, CSS, JS, SQL, R (ggplot), Linux/UNIX, NGS, UCSC Genome, Tableau, Github, Clustal, Galaxy, Bioconductor, NCBI, Conda, Docker