

PRIYA HARIHARAN

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EDUCATION & COURSEWORK

University of Washington – Informatics, B.S.

GPA: 3.65

Expected June 2024

Awards: Dean's List

Related Coursework: Databases and Data Modeling, Client-Side Development, Intermediate Data Programming (Python), Computer Programming (Java), Core Methods in Data Science (Python), User Design Methods, Product Management

Prospective Coursework: Data Structures and Algorithms, Intermediate Programming Concepts (C/C++), Mobile Development: Android, Server-Side Development, Cooperative Software Development, Intro to Machine Learning (Python)

SKILLS

- **Programming Languages:** Java, Python, HTML, CSS, ReactJS, JavaScript, R, SQL, Git, Ajax
- **Applications:** Azure, Tableau, Power BI

EXPERIENCE

Data Analysis and Intelligent Systems (DAIS) Group, Seattle, WA

May 2022 - Present

Research organization that creates predictions of protein chains from 3D cryo maps

Backend Engineer Intern

- Developed a solution for a token authentication email API issue by engineering test cases to ensure that token was being renewed periodically
- Evaluating the macromolecular pipeline code on GitHub and re-designing the pre and post processing elements to make predictions of nucleic acid arrangement 80% more accurate
- Working on Alpha Fold implementation by comparing ColabFold's relaxed and unrelaxed models with DeepTracer's prediction in Pymol cealign software to compare structural compatibility
- Calculating RMSD values of predicted protein structures and determining the anchor points from where amino acids chains aligned well in order to slice models

Social Policy and Identity Research (SPIR) Lab, Seattle, WA

Sept. 2021 – June 2022

Research lab examining diversity and inclusivity perspectives in different environments

Research Assistant

- Designed a program to catalogue words by count in different DEI statements using Python and sorting them into different categories to determine the type of language being utilized
- Reviewed scholarly articles and drafted experimental ideas to test the validity of claims made
- Edited scientific papers and supplemented them with evidence of new studies and additional data related to the topic

PROJECTS

University of Washington Major Finder

Sept. 2022 – Dec. 2022

Frontend Developer

- Created an application through JavaScript, ReactJS, and CSS that helps underclassmen at UW look at detailed information about majors as well as reviews that other students have left on classes within majors
- Features included are posting and filtering buttons along with functional search bar navigation
- Responsible for creating major search page and search bar as well as adding cards into homepage

Analysis of Colorism in Modeling Industry

March 2021 – June 2021

Backend Engineer

- Created a model in Python to predict whether there is colorism in the modeling industry by analyzing a subset of Vogue models and their skin tones
- Cleaned data and used training and testing datasets as well as a graphical analysis to visualize results with Seaborn
- Responsible for merging dataset and isolating parts of it to compare in graphs through Pandas