Evan Edelstein

New York, NY | 917-612-9800 | edelsteinevan@gmail.com https://github.com/eved1018 | www.linkedin.com/in/evan-edelstein

Education

Yeshiva University, June 2021

Major: Biochemistry | Minor: Mathematics | GPA: 3.87

Relevant Coursework: Computational Biology of Proteins (Graduate), Biostatistics and Informatics (Graduate), Linear Algebra, Physical Chemistry I & II (Honors), Intro to Algorithms and Vector Calculus for Engineers (Honors). **Certifications and Awards**: Kressel Research Scholar, Excellence in the Study of Natural Sciences, Excellence in Chemistry, EMT, Mental Health First Aid.

Skills

Coding Languages and Tools:

· Python (Pandas/Scikit-learn), C++, JavaScript (Node/React/Next), R, Bash, Unix, SQL, Git, Docker, Slurm, AmberMD

Projects

Pericaat April 2022 - present

• Developing Python program to automate protein engineering by identifying pharmacologically relevant protein residues at the periphery of a proteins interface.

What's For Dinner? February 2022 - present

· Designing C++ command line application to automate meal planning.

Community Builder, December 2021 - present

- · Designing full-stack web application to organize and generate marketing campaign content.
- · Implementing Database to organize data and generate detailed analytics.

Fiser Lab Website *June* 2021 – *present*

- Designing efficient server-side rendered website using Next.js to provide external access to lab developed software.
- · Creating animations and UI components with Next.js, Framer-motion, and Chakra-UI.

ISPIP, *May* 2021 – *June* 2021

• Implemented Python package and GUI to assist drug target discovery by providing a machine learning based protein interface prediction and visualization tool.

Experience

Albert Einstein College of Medicine, Research Trainee, June 2021 – present

- Studying the effects of mutation on protein interactions by change in binding-energy using Molecular Dynamic simulation.
- · Using C++ to parse simulation data, perform statistical analyses and draw meaningful conclusions.

Katz School of Science and Health, Student, January 2021 – May 2021

- · Studied association between quality of sleep and health by ANOVA, chi-square, and t-test in patient data using R.
- · Developed a regression model to identify high risk patients from self-reported sleep data.

Yeshiva University, Undergraduate Researcher, May 2019 – May 2021

- Created machine learning approach for protein interface prediction, improving MCC by 25% and increasing ROC-AUC from 0.73 to 0.88, by utilizing a Histogram-based Gradient Boosting Regression Tree.
- · Implemented quality of model statistics using fast-Delong algorithm and cross-validation techniques.

Leadership

Albert Einstein College of Medicine, Teaching Assistant, December 2021 – Present

· Lectures on introductory programming, Python and Pymol to Biology 10 PhD students.

Yeshiva College Computer Science Journal Club, Vice President, June 2020 – May 2021

· Organized and led bi-weekly discussions of foundational and SOTA CS papers to 25 fellow students.