Sofia Theodoras

I'm a motivated and driven student at UC Berkeley, interested in computational biology and bioinformatics.

University of California, Berkeley - GPA: 3.65

Aug. 2020 - Present

B.A. in Molecular and Cell Biology (Immunology Emphasis), and Computer Science Expected May 2024.

Languages	Python, Java, JavaScript, C, React, HTML, CSS, AWS, SQL, R, GoLang English, Swedish
Coursework	CS186 – Database Systems, Data 100 – Principles of Data Science, CS188 – Intro to AI
Current Websites 2023	Startup Competition (HTML/CSS): https://sofiathebass.github.io/SurMice/ Web Developer and Current President of TMSCA (HTML/CSS): https://tmsca.berkeley.edu UC Berkeley Stem Cell Center Webmaster (Wordpress): https://stemcellcenter.berkeley.edu Conboy Lab Webmaster (Wordpress): https://conboylab.berkeley.edu Personal Website (React): https://sofiathebass.github.io/chicken-nuggets/

DEVELOPER EXPERIENCE

Molecular Screening Intern - Upside Foods

May 2023 - Aug. 2023

- My work focused on optimization of the R&D cloning process by increasing throughput and reducing variability within various steps of the pipeline.
- Worked on building and optimizing scripts on liquid handler automation equipment (C#, JavaScript) as well as a React UI for a new walkaway system.
- Ran large scale analysis on R&D data to find trends and confidence intervals within their instruments/assays, using over 100k datapoints.

Software Engineering Intern - Clearpol

Jan. 2023 - Mar. 2023

- Extensive Data analysis and visualization on User Data Analytics for eventual Targeted Marketing, as well as sourcing/building a database of potential customers.
- Quality control for their website, experience probing in depth for UI/UX errors and a cleaner design format

Developer, Plextech

Jan. 2021 - Jan. 2022

- Completing a neural network driven problem determining the optimal locations for positive human-squirrel interactions within New York city.
- Working with Tassel Software to create an application that can hold their data and communications within their prison to community college program.

TEACHING EXPERIENCE

Coursestaff for CS61A - The Structure and Interpretation of Computer Programs

Aug. 2022 - Dec. 2022

- ➤ Teaching a tutoring section for 61A.
- > Running office hours and project parties along with other course staff members.
- Creating getting started and solution videos for 1700 students.

CS88 (Computational Structures in Data Science) CSM Senior Mentor

Aug. 2021 - Dec. 2022

- Junior/Associate Mentor from August 2021 to August 2022
- > Tutoring several sections of students in CS88, an intro computer science course

PROJECTS

Undergraduate Lab at Berkeley - Computational Biology

Jan. 2021 - June 2022

- Using evolutionary data to create a computational model for a hypoallergenic version of peanut allergens that doesn't affect protein function, specifically focusing on Ara h 2, 6, and 7.
- Findings presented at the BioE Research Symposium (May 1, 2021), and the ULAB Symposium (May 4, 2021)
- > 2022 Mentored students studying cows as model organisms for height

RESEARCH

Undergraduate Researcher, Conboy Lab

May 2022 - Present

Researching and planning my own project on how human serum/specific proteins in human serum affect aging in Neural Progenitor Cells; experience using flow cytometer, Western Blots, IPs, cell culture/differentiation.