Tyler Wu

(949) 732-8544 ● tyler_wu@berkeley.edu ● www.linkedin.com/in/tyler-j-wu ● github.com/tylerwu2

EDUCATION

University of California, Berkeley ● College of CDSS **Berkeley, California**
B.A. in Data Science ● GPA 3.982/4.0 **Expected Graduation:** *Fall 2026*
Relevant Coursework: Data Structures, Efficient Algorithms and Intractable Problem, Principles and Techniques of Data Science, Probability for Data Science, Discrete Mathematics, Data Mining and Analytics, Linear Algebra, Structure and Interpretation of Computer Programs

PROJECTS

Document Search Tool
- Developed a full stack application using Next.js and React for the frontend and FastAPI for the backend that allows users to summarize and query uploaded documents
- Integrated backend in Python using FastAPI, Langchain, and ChromaDB to implement a retrieval-augmented generation (RAG) system with a vector database and embeddings

Personal Portfolio Website
- Created an interactive personal portfolio to showcase my work and experience using HTML and CSS hosted on GitHub pages

EXPERIENCE

Rapid Reviews Infectious Diseases (RR\ID) **Berkeley, CA**
Undergraduate Research Assistant - Under Dr. Stefano Bertozzi September 2024 – January 2025
- Gained experience with reading and analyzing scientific literature and the literature review process in the public health domain, focusing on topics of epidemiology and vaccine efficacy
- Evaluated quality of hundreds of peer reviewers and pitched preprints at weekly team meetings and editorial meetings

Irvine iCare Optometry **Irvine , CA**
Optometric Tech June 2019 - Present
- Organized and alphabetized 15,000 patient files at an optometrist clinic
- Helped develop system to transfer thousands of patient files into an electronic health record (EHR) database through converting paper files to electronic health records
- Interacted with patients and assisted with providing visual health care, shadowed optometrist, and learned patient examination procedures and about patient care and etiquette

Rubicon Biotechnology **Irvine, CA**
Lab Intern June 2022 - September 2023
- Collected and visualized data from UniProt and NCBI protein databases in Excel to build and connect evolutionary trends between organisms
- Performed laboratory experiments to determine viability of different protein purification processes on the Fv-Hsp72 protein
- Researched methods of modeling protein-DNA interactions through protein docking software

SKILLS & INTERESTS

Programming Languages: Python, R, Java, SQL, JavaScript
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, SciPy, ggplot2, dplyr
Interests: Sports Analytics, AI Agents, LLMs, Database Management, Quantum Computing