TANVI KHOT

tanvikhot@berkeley.edu | tanvikhot.com

EDUCATION

University of California, Berkeley *Berkeley, CA* **Expected 5/24**
Computer Science, BA

SKILLS

Python, Java, JS, React Native, C, Numpy/Pandas, MongoDB, Docker, Golang, PyTorch, SQL, Node, AWS, Jenkins, Grafana

COURSEWORK

Structure and Interpretation of Computer Programs, Data Structures, Designing Info. Devices and Systems I & II, Discrete Mathematics and Probability Theory, Foundations of Data Science, Principles and Techniques of Data Science, Machine Structures, Efficient Algorithms and Intractable Problems, Artificial Intelligence, Machine Learning, Computer Security, Database Systems, Operating Systems and Systems Programming

EXPERIENCE

Undergraduate Researcher, **Berkeley Artificial Intelligence Research (BAIR)** **10/23 - current**

- LLMs and Speech @ Berkeley Speech Group under Gopala Anumanchipalli and Akshat Gupta
- Researching a novel approach in knowledge editing LLMs; verifying the persistence of an added fact and related knowledge to an LLM through past endeavors such as ROME, MEND, and MEMIT.

SWE Intern, **Salesforce** **5/22 - 8/22; 5/23 - 8/23**

Build Analysis - 5/23-8/23

- Integrated the ELK stack, including Grafana, with Prometheus to export Jenkins metrics to a Time Series Database.
- Build models using Pandas to leverage Grafana dashboards for data visualization; Worked closely with the pipeline engineering team.

Production Development - 5/22 - 8/22

- Built APIs to proxy requests from authenticated local users to AWS resources like Secrets Manager and S3, authenticated using their GitHub access tokens. AWS resources were provisioned for multiple master accounts per user group, and User group management and user preferences were stored in MongoDB

Project Manager, **Big Data at Berkeley** **8/21 - current**

Valuenex - Project Manager

- Designed a web scraping tool using Selenium to gather recent tweets and Google results about startups and used the chatGPT API to predict evaluation using that info. Built a model around the normal distribution to predict the uniqueness of the company to add to Valuenex's product "startup finder"

American Eagle - Project Manager

- Built an optimization model to find the most efficient assortment of products for a clothing store distribution center to minimize shipping costs. To achieve this, our team created vector embeddings from SKU descriptions and optimized them via a linear program. This pipeline was utilized by the supply chain team @ AE and minimized shipment costs by 4%.

Karbon - Data Consultant

- Built an ML model to predict customer expansion & churn and a "health score" metric to help interpret users' decision-making process. This model was integrated into the subscription team's main pipeline.

Intuitive Surgical - Consultant

- Trained a Computer Vision model to filter blurry images from a medical data set and used PCA/SVM on transformed images via the Laplacian process. This cleaned dataset was used to run an unsupervtised model via clustering/PCA to find patterns in the medical data. The results were used to evaluate the patients from the dataset and increased diagnoses response time by 2%

Software Developer, **FlyerStack (Berkeley Skydeck Accelerator Program)** **8/21 - 5/22**

- Led the development of a full-stack, cross-platform app via React Native for a student-led startup that enabled students in Berkeley to receive notifications about events in and around the campus; used Firebase as the backend for all users & event-related data

WWDC Scholar, **Apple** **5/19**

- Created a playground using Swift and participated in several interviews with Tim Cook; 1 of 350 global participants.