







TEJAS KAMTAM

 [LinkedIn](#) |  972-571-1738 |  tejaskamtam@ucla.edu |  Los Angeles, CA |  [GitHub](#)
 <https://tejaskamtam.vercel.app/>

EDUCATION

University of California, Los Angeles (UCLA)

Los Angeles, CA

B.S. in Computer Science

Sep 2021 – Jun 2024

- **Cumulative GPA:** 3.33 / 4.00
- **Languages:** Python (TensorFlow, PyTorch), C++, JavaScript (React, TypeScript), Bash, x86-64
- **Certificates:** [DeepLearning.AI](#) - TensorFlow Developer; [Microsoft](#) 98-364 – Database Administrator

EXPERIENCE

AI Safety Corporation at UCLA 501(c)(3)

Los Angeles, CA

Director of Projects and Workshops

Jun 2022 – Present

- Led the development of Natural Language Processing (NLP) undergraduate research workshop over the course of 6-8 weeks to create a Sentiment Analysis model of Twitter tweets by fine-tuning Google's BERT LLM to better understand Transformer architectures and hyperparameter training of state-of-the-art AI
- Collaborated with students across the world at a [Global Challenges Project \(GCP\)](#) workshop at UC Berkeley to plan an inter-collegiate AI Ethics and Alignment research symposium for the Summer of 2023

Innexgo LLC

San Jose, CA | Remote

Backend Engineer

May 2022 – Dec 2022

- Developed the backend for a primary React webapp using Rust on a microservice architecture to operate on received and transmitted commands over WebSocket and HTTP for a network of RFID card scanners
- Created SQL query schemas using PostgreSQL. Implemented multiple microservices on AWS EC2 instances to assemble attendance reports presented on the React webapp using a RESTful API

PROJECTS

[CarMeet](#) – Social Media Web App

Los Angeles, CA

ML & Fullstack Engineer (Python TensorFlow 2.0/JS, React)

Oct 2022 – Dec 2022

- Engineered a social media web application for car enthusiasts to meet, organize, and communicate by mimicking dating-app functionality using the MERN (MongoDB, Express, React, Node.js) technology stack
- Developed a robust Binary Image Classifier using Python via TensorFlow 2.0 and JS to detect the presence of cars in images uploaded to the web app with a 97% validation accuracy over 20 epochs
- Integrated the MongoDB database to the backend Express server (local) to dynamically update data on the home, profile, and message inbox pages by incorporating server-side hooks and Axios/Express APIs

[Bruin Spacecraft Group](#) – Low-Orbit Satellites & Weather Balloons (HABs)

Los Angeles, CA

Overseer Chief Engineer (Python, C++)

Sep 2021 – Present

- Developed software in C++ to analyze star position and orientation for the operation of a 3-unit cube satellite in Low-Earth orbit hosting a Xenon ion for an on-campus aerospace and propulsion research lab
- Designed a Python program hosted on a Raspberry Pi to analyze GPS data collected aboard a High-Altitude Balloon (HAB) to transmit data packets to HQ and initiate cutdown for parachute deployment

[50whales](#) - Humpback Whale Image Classification

Los Angeles, CA

Machine Learning Researcher (Python, PyTorch)

Jan 2022 – Mar 2022

- Worked with a group of 3 to develop a machine learning model to accurately classify over 25,000 whales into 5,000+ categories by integrating a Siamese convolutional neural network
- Incorporated transfer learning from ResNet18 and preprocessing techniques including object detection, image segmentation, color masks (grading, grayscale, etc.) in Pytorch using Pillow
- Achieved a 32% validation accuracy on the first epoch (cross-entropy) and utilized an Adam optimizer with a triplet loss to work up to a 65%+ accuracy across 10+ epochs

SKILLS

Proficient: Python (TensorFlow, PyTorch, NumPy), C++, C, React, JavaScript (NodeJS)

Experienced: Rust, PostgreSQL, MongoDB, Express, Next.js

Interests: [AI Safety and Alignment](#), [Effective Altruism](#), Financial time series forecasting, NLP/NLU