TEJAS KAMTAM

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EDUCATION

University of California, Los Angeles — **Los Angeles, CA**
B.S. in Computer Science and Engineering & B.A. in Business Economics — *Sep 2021 – Jun 2025*

- **Academics**: GPA: 3.4/4.0; SAT: 1550/1600 – Math: 780, English: 770
- **Courses**: C++ Programming, Computer Architecture (x86-64, MIPS)
- **Honors**: Alpha Lambda Delta, Phi Eta Sigma
- **Certifications**: DeepLearning.AI - TensorFlow Developer; Microsoft 98-364 - DBA

PROJECTS

Humpback Whale Identification - 50whales — **Los Angeles, CA**
Machine Learning Engineer - 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

Desktop Web Application - HomeBase — **Coppell, TX**
JavaScript Developer - Node.js — *Nov 2020 – Mar 2021*

- Worked in a team of 4 to design a Windows desktop web application to help elderly easily access important information using Google weather, email, and calendar APIs built using Node.js
- Utilized a MongoDB database to store user information and provide the same experience which is accessible across devices and locations by dynamically creating personalized UIs

Simple Stock Predictor — **Coppell, TX**
Machine Learning Engineer - TensorFlow — *Mar 2021 – May 2021*

- Collaborated with a high school AI club to develop a time series forecasting ML model to predict short term (1h) changes in closing prices of various companies 1 month forward using TensorFlow in Python
- Utilized sequential LSTM layers from the Keras RNN library to create a robust neural network to validate predictions on real-time data visualized by line charts using MatPlotLib, Pandas, and NumPy libraries

EXPERIENCE

Bruin Stock Group — **Los Angeles, CA**
Quantitative Analyst — *Sep 2021 – Present*

- Identified over 15 options contracts each with a high probability of increasing open interest over 1–3-month intervals for over 30 companies by creating PineScript algorithms on TradingView
- Incorporating time forecasting ML strategies to predict future premiums for current OTM options by analyzing stock option metrics such as Greeks, IV, and reverse engineered intrinsic values

Bruin Spacecraft Group — **Los Angeles, CA**
Software/Operations Design — *Nov 2021 – Present*

- Designing software for "Rapid" in C++ over 3 years for the launch of a muon detector into Low Earth Orbit using a cube satellite by analyzing star patterns and gyroscopic orientation
- Analyzing data for "Overseer" from high altitude balloon simulations to predict optimal launch conditions using pattern recognition techniques (ML) on positional and directional data
- Collaborated with communications, electronics, and design teams to incorporate necessary functions by creating presentations to clarify the design process and limitations of resources

PROGRAMMING

Proficient: Python (TensorFlow, PyTorch, Flask), C++, C
Experienced: JavaScript (NodeJS, React), HTML5, CSS, Java
Interests: NLP, time series forecasting, quantum computing, ARM ISAs, information theory