Kevin Kim

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- Programming Languages: Python, C++, Java, Bash, Lua
- Data Science & Machine Learning: PyTorch, Tensforflow, Cuda, SQLite, Slurm, Pandas
- Simulation & Robotics: Gymnasium, MuJoCo, Verilog, Soldering, Drone Manufacturing
- Research Skills: Linux, LaTex, WandB, Git, Seaborn, Keynote
- Mathematical & Statistical Tools: MATLAB, Numpy, Scipy, Matplotlib

EDUCATION

EDUCATION	
University of Southern California	2023 - 2027
B.S. Applied and Computational Mathematics (Minor: AI Applicat	ion) Los Angeles, CA
• Activity: GLAMOR Lab, Lira Lab, 3D4E, AI Safety	y Club, ACM, HackSC, Gardening Club
Deerfield Academy	2019 - 2023
Secondary Education	Deerfield, MA
• Summa Cum Laude, ACSL Nationals, AIME Qua	lifier, USACO Gold
Experience	
• LiraLab @ USC	December 2023 - Present
Undergraduate Research Assistant	Los Angeles, CA
Skills: Slurm, Hydra, Wandb, Keynote	
 Conduct multiple experiments to confirm hypothesis or demonstrations. Visualize and analyze trajectory data. 	n various offline robot trajectory retrieval based on hand Weekly presentations and note taking during meetings.
• HackSC	August 2023 - December 2023
Backend Engineer	Los Angeles, CA
Skills: Postman, Node.js, Supabase, REST APIs, Docker, Git	
 Developed an automated judjing portal for hackathon and enhance efficiency and maintained backend integr 	s, leveraging heuristic-based evaluation to streamline scoring ity through Supabase and developed secure endpoints.
• Roborisen	May 2022 - Sep 2022
AI Research Intern	San Francisco, CA
Skills: Python, Tensorflow, Pytorch, Cuda, Yolov3, Linux, Bash Scri	pting, LaTex
• Designed and created the tutorial manual for the Ping	Pong AI Bot© leveraging TensorFlow and Yolov3.
Projects	All projects can be found on my Github Pagi
• Distilling CLIP for Domain-Specific Zero-Shot Cl	assification on LIBERO June 2024 - Present
 Distilling CLIP for the specialized LIBERO dataset ada and avoiding the overfitting risks of small-data fine-tur 	pts it to unique poses while preserving zero-shot capabilities ning. Inspired from project ideas by Jesse Zhang.
APEM: A Paper Every Month	September 2023 - Present
Skills: PyTroch, Wandb, Stable-Baseline3, Deep RL Algorithms	,
 Reproduce, implement, and critically evaluate significa RNN, DQN, PPO, Transformer, etc. 	ant research papers every month. So far implemented: CNN,
Dining Hall Food Wast Reduction (Junior Year Inc.	dependent Study Project) September 2021 - March 2022
Skills: MLOvs, OvenCV, Yolov3, Tensorflow, Data Pipelining	····
 Developed a food waste predicting system for my high leveraging custom metrics for performance assessment 	n school: from data collection to evaluation and deployment, t and heuristic methods for optimization.
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Notable Coursework	A=AUDIT, C=COURSE WORK, CT=CERTIFICATE, S=SELE-STUD'
[C] Machina Learning (CCCLE(7) Marture Chains	nd Stachastia Drassaga (MATLI 400) + Theory of
[C] Markov Chains and Markov C	na Stochastic Processes (MATH 490) Theory of

- Optimization (MATH 467) | Probability Theory and Statistics (MATH 407, 408) | Numerical Analysis (MATH 458) | Multivariate Calculus for Engineers (MATH 229) | Special Topics in Linear Algebra (MATH 471)
- Tensorflow Developer Professional (Coursea) | Deep Learning Specialization (Coursea) [CT]
- Deep Reinforcement Learning (S. Levine, UC Berkley CS 285) | Reinforcement Learning: An Introduction (R. [S] Sutton) | Deep Learning (I. Goodfellow)
- Data Science in Python (MATH 446) | Introduction to Robotics (CSCI 445) [A]

SKILLS