

Kimi Chen

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Data Science and Applied Mathematics student with research experience in reinforcement learning, computer vision, and prompt engineering seeking ML internship. Proven ability to build deep learning pipelines and deploy models.

EDUCATION

University of California, San Diego (GPA: 3.95)
B.S. in Data Science and B.S. in Applied Mathematics

Expected Graduation: Jun. 2028
San Diego, CA

TECHNICAL SKILLS

Languages & Scripts: Python, C, C++, SQL, JavaScript, TypeScript, HTML, CSS, RegEx

Machine Learning: PyTorch, TensorFlow, Scikit-Learn, OpenCV, HuggingFace Transformers, SpaCy

Web Development: React, Node.js, Django

Other Tools: Git/GitHub, Docker, Power Automate

EXPERIENCE

Research Assistant

Mar. 2025 – Present

Professor Zhiting Hu's Research Lab

San Diego, CA

- Built reinforcement learning based data pipelines generating 3M+ frame action pairs for training and testing our World Model on interactive game dynamics.
- Developed an evaluation pipeline specifically for the game side of the World Model to assess action output consistency, controllability, and interaction fidelity.
- Enabled vision language models (VLMs) to interact with and play both 2D and 3D games with our World Model, expanding AI capabilities in interactive gameplay.

Computer Vision Lead

Sep. 2024 – Present

Triton Unmanned Aerial Systems

San Diego, CA

- Led a team in rearchitecting the computer vision codebase (~100 Python/C++ files) into modular stages, cutting new model integration time from ~2 days to <3 hours.
- Finetuned and exported a YOLO v11 computer vision model to ONNX, achieving realtime target detection on an embedded NVIDIA Jetson Nano during drone flight tests.
- Created an OpenCV based orthomosaic stitcher for high resolution panoramic maps.
- Collaborated with a multidisciplinary team (pilots, engineers) to integrate our vision system into the plane.

Data Science Intern

May 2023 – Aug. 2023

Lanner Inc.

Taipei, Taiwan

- Designed gradient-boosted and time-series models that flagged cost anomalies with 96% precision and generated optimal reorder dates, accelerating supply-chain decisions.
- Introduced a Robotic Process Automation (RPA) pipeline for data organization tasks through Power Automate, reducing processing times by 70%.

Web Developer Intern

Apr. 2023 – Nov. 2023

Silverline Educational Advisory Services

Taipei, Taiwan

- Optimized website performance and SEO, achieving a 30 point improvement in Lighthouse test scores.
- Led CSS refactoring by transitioning to modular, maintainable, and scalable structures.
- Integrated a Content Management System (CMS) to enhance content updates and ensured seamless front-end display across devices.

PROJECTS

Disinformation Detection via Various Deep Learning Models

- Consolidated multiple public fake news datasets and built a natural language processing (NLP) pipeline for bias word removal, lemmatization, tokenization, and sequence padding to create a balanced training corpus.
- Benchmarked LSTM w/ GloVe, DistilBERT, Llama 2, and GPT 4 Turbo in PyTorch, exposing a 40 percentage point gap between in domain (99% accuracy) and out of distribution (OOD) splits and showing GPT 4 Turbo outperform a human baseline collected from survey data.