Kenneth Xu

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Education

University of Michigan, Ann Arbor, B.S. Computer Science, B.S. Cognitive Science   **December 2025**
- Dean's List 2022 , 2023, 2024, 2025
- **Relevant Coursework**: Machine Learning Research Experience, Machine Learning, Computer Vision, Foundations of Computer Science, Programming & Data Structures, Computer Organization, AI-Enabled XR, Autonomous Robotics, Practical Data Science, Discrete Mathematics, Statistics

Research and Projects

MastSAM - IJCNN 2025 Publication   **Ann Arbor, MI**
First Author   *December 2024 - July 2025*
- Formulated the experimental method to solve the inconsistency problem in Meta's SAM vision model
- Fed image sequences into MAST3R and engineered a K-Means Algorithm to feed uniform into SAM
- Spearheaded Gaussian Splatting and Point Cloud for seamless segmentation tracking

Splat Feature Solver - ICLR 2026 Submission   **Los Angeles, CA**
Second Author   *March 2025 - Present*
- Reproduced baselines for OpenGaussian & LeRF-OVS, building end-to-end training/inference pipelines
- Built reproducible evaluation tooling: data prep, mIoU/accuracy metrics, & justified novel model performance
- Created an interactive visualization platform with Viser to evaluate 3DGS with PCA and attention maps

Human Centered Computing Lab   **Ann Arbor, MI**
Research Assistant   *January 2025 - Present*
- Developed a Human-AI Collaborative Writing Platform to bridge intention gaps in group writing

Tiny-YOLOSAM   **Ann Arbor, MI**
Research Lead   *August 2025 - Present*
- Developed a YOLOv12 + TinySAM segmentation pipeline sped up inference by 6x while preserving quality
- Implemented detection-guided prompting & mask-merging strategies, enabling practical real-time inference.

Work Experience

Nowadays (YC S23)   **San Francisco, CA**
Software Engineer and Product Management Intern   *March 2024 - August 2024*
- Developed codebase by committing changes in Github using Vercel and Linear for auto-deployment
- Built a robust frontend using NextJS & React, integrating it with Supabase for optimal UI and user experience
- Mastered PgAdmin to run SQL queries and scraped our database using Selenium and Beautiful Soup

YCombinator Pioneer Internship Program S24   **San Francisco, CA**
- Oversought product demos, listened to pitches, and discussed the use cases of RAG and Generative AI

Hemingway (YC W24)   **San Francisco, CA**
AI & Machine Learning Intern   *December 2023 - March 2024*
- Built a user back-end interface for dental patients and clinics using a LLMs such as GPT and Llama
- Prompt engineered the OpenAI client in Python to elicit responses based on user text messages
- Utilized JSON files for querying dental schedule openings based on user specs and clinic appointment slots

Meriwest Credit Union   **San Jose, CA**
Software Apprentice   *August 2023*
- Oversought weights, input layers, optimization algorithms, and numpy modules within neural networks to identify targeted marketing campaigns, increasing product profitability by 3 percent
- Familiarized with cybersecurity in Google Cloud, AWS, Azure, shell, and PGP file encryption

Skills

- **Languages:** English (Native), Mandarin (Native), Spanish (Intermediate)
- **Programming**: Python, Pytorch, Tensorflow, C++, NextJS, React, SQL, CSS, C, Verilog, R, JavaScript
- **Tools**: Conda, Git, Google Cloud VM, XCode, Android Studio, VS Code, PgAdmin, MATLAB, ssh, Viser
- **Hobbies**: Ping Pong (UMich Team), Basketball, Bodybuilding, Cooking Omurice, Cooking Steak, Piano