Kenneth Xu

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Education

University of Michigan, Ann Arbor, B.S. Computer Science, B.S. Cognitive Science   **May 2026**
- Dean's List 2022 , 2023, 2024
- **Relevant Coursework**: Machine Learning, Computer Vision, Foundations of Computer Science, Programming & Data Structures, Computer Organization, AI-Enabled XR, Autonomous Robotics, Parallel Programming with GPUs, Practical Data Science, Discrete Mathematics, Statistics

Research and Projects

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

Spatial SAM It Is - IJCNN Submission   **Ann Arbor, MI**
Researcher   *December 2024 - January 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

Location Alert IOS App   **Ann Arbor, MI**
Developer   *February 2024*
- IOS App that sends push notifications to your iphone when outside of set geofenced location
- Utilized custom geofencing in Swift for precise location detection, built and deployed on XCode

Franklin Research Internship Program   **Ann Arbor, MI**
Lead Researcher   *December 2021 - August 2022*
- Built a CNN in PyTorch to accurately read and distinguish analog vs. digital clocks' perceptual efficiency
- Split dataset for testing and validation, benchmarked performance, and visualized results on MATLAB

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
- **Hobbies**: Ping Pong (UMich Team), Basketball, Bodybuilding, Cooking Omurice, Cooking Steak, Piano