

# 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

**Spatial SAM It Is - 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 - AAAI 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

**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

## 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