Joy Zhang

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EDUCATION

University of California, Irvine 2026 – 2030 (expected)
B.S. Computer Science and Engineering

PROJECTS

My Portrait · Swift, macOS · GitHub May 2026 – present

- Data cleaning, model post-training and quantization
- Native macOS integration
- Front-end performance optimization and an original physics engine

STBLarge · C, C++, CUDA, Python Nov 2026 – present

- Full-precision DeepSeek-V4.1-Flash (476 GB) on one DGX Spark, about 20 tok/s on average
- MoE expert predictor and global scheduler
- Cache management and latency hiding (SSD reads overlapped with GPU compute)
- GPU acceleration design

Sparky-toolbox · Python, Linux · MIT · GitHub Sep – Oct 2026

- Prompt-injection defense
- Self-improving architecture
- Fine-grained allocation of machine resources (DGX Spark)
- Efficient context management

EXPERIENCE

AI Product Associate (part-time) · Valis Residential, Inc. Feb – Aug 2026
An AI-native startup that markets family apartments and finds clients through social media.

- Rebuilt manual workflows as AI-native processes.
- Built and maintained the company's AI customer-service agent.
- Built a pipeline that proactively finds prospective clients.

Volunteer, K–6 Summer Camp · United Church of Chapel Hill Aug 2025
Helped teach traditional Chinese culture and kept class order with other volunteers.

SKILLS

Languages	English (fluent; lived in the U.S. for four years), Mandarin Chinese (native)
Programming	Swift (SwiftUI), Python, C, C++, CUDA, Java, JavaScript, Shell
Tools	Git, Docker, SQLite, PostgreSQL, PyTorch, MLX, Claude Code, Codex
AI	Training-data curation and cleaning, model post-training, model quantization, hardware acceleration, agent harness architecture and security
Platforms	macOS, Linux