Kuan Yi Wang

(438)-722-0688 | kuanyi.wang0807@gmail.com | linkedin.com/in/kuan-yi-wang-443871319

Education

University of Waterloo — Waterloo ON
Bachelor's of Computer Science — *June 2030*
Overall GPA: 4.0

Industry Experience

Tech Analyst Intern — May 2026 – curr.
Morgan Stanley — *Toronto, ON*

- Built an agentic pipeline that auto-opens JIRA tickets and transforms them into industry-compliant database tags, supporting millions of transactions worldwide.
- Improved tag accuracy and reduced manual triage by 90% across database workflows.
- Achieved a linearly faster insertion rate via parallel agent execution and optimized batch writes.

Research & Development Intern — June 2025 – Jan 2026.
Neuropoly (Mila Montreal) — *Montréal, QC*

- Trained and fine-tuned nn-UNet deep learning AI models to automate the segmentation of spinal cord multiple sclerosis lesions on contrast and modality agnostic medical images.
- Contributed to SlicerCART, an open-source module optimizing the segmentation and annotation speed of Magnetic Resonance Imaging (MRI) and Computed Tomography (CT) images by over 80%.
- Engaged in quality control of segmentation mask inferences on lesions in the spinal cord.

Community involvement

Co-founder & Head of Communications — Sep. 2024 – curr.
Piñata Pitch — *San Francisco Bay Area, CA*

- Co-founded the largest student tech pitch competition based in Montreal.
- Organized a Special Edition of Builder Sunday (AI Build Day x Pinata Pitch) in collaboration with Shopify, helping more than 200 builders launch their startup in a hackathon-style networking event at the Montreal Shopify office.
- Organized unfounders, a hackerhouse in San Francisco promoting untraditional creator-founders during a16z Tech Week.
- Directed marketing and outreach team, and successfully secured partnerships with local youth movements, Front Row Ventures, Technology & Entrepreneurship Center at Harvard University, FTEX and notable influencers.

Recent projects

ISEF | *GNN Quantum Error Decoder* — Oct. 2025 – curr.
Phoenix, AZ

- Grand Award for the International Science and Engineering Fair (<0.1% worldwide).
- Designed input-invariant graph neural networks (GraphSAGE) to decode quantum errors on surface codes.
- Achieved error resistance with 5-7 times fewer parameters than standard neural networks, while constantly inferencing at sub-50 microseconds speed.

V-JEPA based Multimodal Conversational Agent — Sep 2025 – curr.
Montréal, QC

- Uses V-JEPA-inspired world model to predict near future turn taking, end of turn timing, dialog act, affect, and uncertainty from face/voice/text/quality signals, with macro F1 rising 0.682 → 0.748 on MELD (+9.7% rel.).
- Improves over prior multimodal baselines via reliability gated fusion across 6 modalities and an RSSM world model, cutting validation loss 1.21 → 0.93 (−23.1%).
- Replaces fragile end-to-end media training with a cache-first MELD pipeline and checkpointing; end-to-end iteration time 3.8 h → 2.4 h (−36.8%) on Colab T4.

Technical Skills

Languages: Python, JavaScript/TypeScript
Frameworks: Flask/React/Next.js, PyTorch
Developer Tools: GitHub Copilot/Cursor, Figma, Google Cloud, Claude Code
Libraries: IBM Qiskit/Google STIM