

Xin Wei

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Applied AI Product | Technical Strategy | International Collaboration

PROFILE

Computer Science graduate with hands-on applied AI experience across computer vision, LLM-based campus services, and edge AI/AIoT orchestration. Experienced in turning technical ideas into usable AI products through product execution, system coordination, user needs analysis, and stakeholder communication. Seeking opportunities in **applied AI product**, **technical strategy**, product operations, or **international collaboration**.

EDUCATION

City University of Hong Kong, Hong Kong

Aug 2026 - Jun 2027

Master of Science in Engineering Management

Taiyuan University of Technology, Taiyuan, Shanxi

Sep 2022 - Jul 2026

Bachelor of Engineering in Computer Science and Technology

Relevant Courses: Machine Learning, Deep Learning, Software Engineering, Database Systems, Operating Systems, Computer Networks

Honors: Outstanding Undergraduate Thesis | **Thesis:** Deep Learning-Based Segmentation Methods for Dermoscopic Images of Pigmented Nevi

CORE COMPETENCIES

AI & Technical: Python, SQL, C/C++, Java; PyTorch, OpenCV, Gradio; computer vision, model benchmarking, data preprocessing, LLM applications

Product & Operations: user needs analysis, knowledge-base design, product iteration, platform deployment, content operations, competitor research, product visibility optimization

Communication & Collaboration: Mandarin-English technical communication, stakeholder coordination, public-facing content strategy, cross-functional project leadership

SELECTED AI / PRODUCT EXPERIENCE

AI Algorithm Intern (Computer Vision), Communications Technology Bureau, Xinhua News Agency, Beijing

Jul 2025 - Sep 2025

- Led a comparative study of deep learning models for eye-state classification, covering data processing, model experiments, training workflow optimization, and result analysis.

- Connected algorithmic evaluation with practical media scenarios such as news image selection, visual content analysis, and interactive media applications.

- Presented application-oriented technical findings to mentors and department stakeholders; work was recognized by the team.

Project Lead - Campus Intelligent Q&A Platform "Xiao Ji Q&A", Taiyuan University of Technology

Feb 2025 - Jul 2026

- Led the design and operation of the university's first AI-powered campus service Q&A platform, turning fragmented policies, procedures, and student service information into a DeepSeek-V3-based information product.

- Built and maintained a knowledge base for high-frequency campus affairs; handled 100,000+ interactions from students and faculty, improving self-service access to university information.

- Coordinated product requirements, technical implementation, deployment, content updates, and user feedback loops between student users, technical contributors, and college stakeholders.

Part-time Assistant - Product & New Media Operations, Xing Tu (Photo Editing App) Project, ByteDance, Beijing

Jun 2023 - Sep 2023

- Supported content planning and product operations for Xing Tu, a consumer photo-editing app, focusing on user profiling, keyword optimization, distribution strategy, and homepage content placement.

- Conducted competitor research and SWOT analysis to support content and product decisions in a highly competitive consumer app context.

- Translated user-facing content trends into execution plans, contributing to improved visibility and engagement of selected homepage placements.

SELECTED AI / TECHNICAL PROJECTS

Boundless AIoT - Edge-Based LLM-Assisted Smart Home Scene Orchestration

Nov 2025 - Dec 2025

- Won First Prize in the Alibaba Qwen × Intel Edge AI Innovation Challenge for an edge-AI smart home orchestration system.

- Led product and system architecture design, translating natural-language user intents into deterministic multi-device scene plans executed on edge devices.

- Designed an intermediate representation (IR) layer that prevented direct LLM control of physical devices, improving safety, reliability, and debuggability in real-world device orchestration.

Medical Image Segmentation Benchmarking and Visualization - Outstanding Undergraduate Thesis

Mar 2026 - Jun 2026

- Built an end-to-end PyTorch segmentation pipeline on the ISIC 2018 dataset, covering preprocessing, training, validation, metric tracking, hard-case analysis, and output visualization.

- Benchmarked U-Net, Attention U-Net, DeepLabV3+, and SegFormer-B0; DeepLabV3+ achieved the best performance among tested models, with 0.896 Dice and 0.824 IoU under the thesis experimental setting.

- Developed a Gradio demo to visualize segmentation outputs and explain model behavior to non-specialist audiences.

AI-Driven Design Innovation Bootcamp, College of Architecture and Art, Taiyuan University of Technology

Oct 2025 - Jan 2026

- Explored AI-assisted visual storytelling by combining Computer Science training with long-term traditional Chinese painting experience.

- Developed concept prototypes for AI-assisted therapeutic design for ADHD, focusing on emotional regulation, attention support, and public awareness.

7th Global Campus Artificial Intelligence Algorithm Elite Competition (AiCOMP 2025) - AI Ethics Track

Oct 2025 - Nov 2025

- Awarded Provincial Third Prize for work on value-pluralistic Responsible AI and metric inconsistency in ethical evaluation frameworks.

Academic Participation / Acknowledged Contributor - Embracing Contradiction: Theoretical Inconsistency Will Not Impede the Road of Building Responsible AI Systems

Mar 2025 - May 2025

- Assisted a New York University research team on Responsible AI, supporting literature review, experiment reproduction, and analysis of theoretical inconsistency in ethical AI evaluation.

- Acknowledged contributor to the related paper, which was accepted by NeurIPS 2025.

Academic Participation / Acknowledged Contributor - Artificial Leviathan: Exploring Social Evolution of LLM Agents Through the Lens of Hobbesian Social Contract Theory

Sep 2023 - Jun 2024

- Assisted a joint NYU and UIUC research project on LLM agents and multi-agent social simulation, supporting data analysis and experiment trials.

- Acknowledged for contributions in the related paper, published in Frontiers in Physics.

LEADERSHIP & COMMUNICATION

Head of New Media Center / Executive Committee Member, College of Computer Science and Technology

Aug 2024 - Jul 2026

- Directed digital communication across WeChat Official Account, official website, and event channels, publishing 150+ articles with 80,000+ total views.

- Coordinated cross-college communication, student services, and digital tool adoption, building experience in stakeholder management and public-facing communication.

President, Amateur Radio Association, Taiyuan University of Technology

Aug 2024 - Jul 2026

- Managed association operations, training, transmission drills, and campus-wide communication activities; expanded cooperation with university radio associations and local authorities.

Initiator, Campus AED Advocacy Project, Taiyuan University of Technology

Nov 2022 - Mar 2025

- Initiated a student petition advocating for Automated External Defibrillators on campus; the proposal was formally adopted after three years, achieving long-term policy impact.