LIUKAI TANG

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EDUCATION

The University of Sydney **Feb 2024 - Dec 2027 (Expected)**

- Bachelor of Advanced Computing (Honours), Computer Science major
- WAM: 87.4(High Distinction)
- Relevant Courses: Data Structures & Algorithms, Computer Systems, Systems Programming, Computer Networks, Object-Oriented Programming, Computer Security, Agile Software Development

INTERNSHIPS

Covestro Polymers (China) Co., Ltd., Asset Management PCT **Dec 2025 - Feb 2026**

Software Development & Data Analysis Intern

- Independently developed and optimized an internal Python-based application using Pandas and Streamlit, delivering its core functionality within one month and enabling efficient processing and querying of 80,000+ material records.
- Modified and upgraded a separate legacy software tool within one week, improving the existing engineering workflow.

Peking University AIIT Digital Creative Laboratory **Jul 2025 - Nov 2025**

AI Engineer Intern & Technical Content Writer

- Selected and trained models, integrated LLM APIs according to project requirements, established data pipelines and data-quality monitoring systems, and ensured the availability and stability of LLM-based systems.
- Authored 10+ technical articles translating emerging AI technologies into accessible content for a broader audience.

PROJECTS

Federated Learning for Mask Recognition | Python, PyTorch, Flower **May 2025 - Sep 2025**

Team Lead & Sole Author of Peer-Reviewed Publication

- Implemented a client-server federated learning system for CNN-based mask recognition, supporting distributed data partitioning, configurable local training, server aggregation, and automated experiments across multiple client settings.
- Developed evaluation and analysis tooling for model accuracy, training time, Pareto trade-offs, and statistical significance, with automated result logging and model testing.
- Publication: “Federated Learning on Mask Recognition with Its Local Simulation and Optimization,” Science and Technology of Engineering, Chemistry and Environmental Protection, Vol. 1, No. 5, 2025. DOI: 10.61173/s4b67r24

HONORS & AWARDS

- **Scholarship Program:** Invited into The University of Sydney Dalyell Scholar
- **Dean's List of Excellence in Academic Performance (2024, 2025):** To recognise commendable academic performance and outstanding standing within the faculty
- **UG High Honour Roll Award:** Invited to CS Award 2026

TECHNICAL SKILLS

- **Programming Languages:** Python, C, Java, SQL, R, C++
- **Tools & Technologies:** Git, Linux, Docker, Bash, CI/CD, Pytest, CMake, PyTorch, Flower, Streamlit
- **Spoken Languages:** English (IELTS 7.0); Mandarin (Native)