

Anthony (JunXiang Huang)

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Education

- **University of New South Wales** Sydney, Australia
Master of Information Technology, specializing in Artificial Intelligence 09/2025 – 07/2027
- **Nanjing University** Nanjing, China
B.Sc. in Computer Science 09/2020 – 07/2024

Experiences

- **Meituan** Beijing, China
Software Engineering Internship - Data Operation Center 10/2023 – 11/2023
 - **Backend Development:** Built a **Flask Python** backend with **LLM** to analyze a food delivery dataset exceeding 10M records, providing key operational insights for improved decision-making.
- **Alibaba Group** Hangzhou, China
Software Engineering Internship - Intelligent Connectivity 08/2023 – 09/2023
 - **Big Data Processing:** Managed large-scale datasets and developed automated data cleaning and validation tools using **Python** and **SQL**, optimizing preprocessing pipelines to improve model performance.
 - **Prompt Engineering & Model Optimization:** Designed prompts for generative AI models and refined them through failure case analysis, increasing model response relevance by 20% and enhancing overall efficiency.
- **JP Morgan Chase & Co.** Virtual
Software Engineering Internship 07/2020 – 09/2020
 - **Real-Time Pipeline:** Built a stock data pipeline with **Python** and **Perspective.js** to handle 1M+ daily transactions, enabling live dashboards and alerts.
- **Matrix Mas** Surabaya, Indonesia
Software Development Internship 01/2019 – 02/2020
 - **Backend Maintenance:** Fixed payment errors and sped up checkout using **Flask**, **SQL**, and Analytics.

Research Experiences

- **Zhejiang University** Hangzhou, China
Student Researcher – Computer-Aided Design Lab (Prof. Changqing Zou) 09/2024 – 07/2025
 - **Model Design & Optimization:** Reviewed key literature on super-resolution and generative vision models, then developed a dual attention mechanism that improved image quality by 10% over standard Transformers. Doubled inference speed with pruning and trained the model on GPUs using **PyTorch**.
- **Nanjing University** Nanjing, China
Undergraduate Researcher – Webssoft Lab, Graduation Thesis (Prof. Wei Hu) 11/2023 – 06/2024
 - **Dependency Management Automation:** Created a **Neo4j** knowledge graph and conflict resolution algorithm to automate Maven dependencies, raising build success from 70% to 92%.

Projects

- **Enhanced SR with ESRGAN:** Refined the ESRGAN model for enhanced perceptual quality by incorporating residual-in-residual dense blocks, tuning perceptual loss, and utilizing adversarial training. Achieved significant improvements in image clarity and quality. Implemented in **PyTorch**.
- **Document Summarization with RAG + LLM:** Built a local RAG system with **Python**, **FastAPI**, and **Docker**, using **embedding models** and a **vector database** for retrieval, and **local LLMs** for summary generation.

Awards and Skills

- **Technical skillset**
 - **Backend & Programming:** Python, C/C++, SQL, R, Java, MATLAB, Flask, MongoDB, GCP, Kafka, Docker.
 - **Machine Learning & AI:** PyTorch, Hugging Face, OpenCV, Pandas, NumPy, Machine Learning, Deep Learning, Computer Vision, Large Language Models (LLM), DVC, Weights & Biases.
- Native speaker in English, Mandarin Chinese, and Indonesian.