

Yuchao (Leo) Zhang

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SUMMARY

AI-focused software engineer and **Master's student in Computer and Information Sciences** at **AUT**, graduating October 2025.

Experienced in **AI, edge computing, and cloud deployment**, with expertise in **LLM-based applications, computer vision, and IoT integration**. Over **10 years of experience in software engineering and full-stack development**, delivering scalable backend, mobile, and industrial solutions. Seeking roles in **AI development, backend engineering, or edge AI deployment**.

KEY SKILLS

- **AI / ML:** Python, PyTorch, TensorFlow, OpenCV, YOLO, diffusion models, LLM fine-tuning
- **AI Coding Tools:** Cursor, Trae, GitHub Copilot, Qwen, OpenAI API
- **Backend:** Java, Spring Boot, Spring Cloud, MySQL, Redis, MongoDB
- **Frontend & Mobile:** Vue.js, HTML/CSS, Android SDK, Kotlin
- **DevOps & Edge:** Docker, Jenkins, Nginx, Git, CentOS, Ubuntu, Raspberry Pi
- **IoT Integration:** UART, GPIO, barcode scanners, RFID, device control protocols
- **Cloud & Collaboration:** Azure basics, GitHub Actions, GitLab CI/CD, OneDrive, Google Drive

EXPERIENCE

ChatClothes Virtual Try-On (AI Thesis) *AUT, NZ* 2024 – 2025
Sole developer of an AI-powered virtual try-on system with multimodal interaction and edge deployment.

- **Designed and deployed** modular pipeline with diffusion model (image generation), YOLO (clothing detection), and LLM (prompt parsing)
- **Integrated** ComfyUI + Dify for orchestration, supporting browser and offline usage
- **Optimized** inference on Raspberry Pi 5 and other edge devices for low-latency performance
- Completed thesis 6 months early with working demo and deployment documentation

Smart Factory Backend System *Chunxiao Technology Co., Ltd., China* 2018 – 2024
Tech lead for a multi-site manufacturing platform integrating backend microservices and IoT hardware.

- **Architected and implemented** microservices with Spring Boot and MySQL/Redis
- **Managed** CI/CD using Docker, Jenkins, and Nginx on CentOS servers
- **Integrated** RFID, barcode scanners, and conveyors for real-time process tracking
- Delivered stable backend services supporting 5+ factories and hundreds of workers

Enterprise Messaging System *Chunxiao Technology Co., Ltd., China* 2014 – 2023
Core Android & backend developer for a real-time IM platform with 10,000+ daily users.

- **Developed** Android client with NDK-based TCP/UDP and backend using Spring Cloud + C++ core
- **Enhanced** protocol stability and reduced message latency to under 200ms

Other Projects & IoT Solutions *Chunxiao Technology Co., Ltd., China* 2013 – 2023
Full-stack engineer for industrial, IoT, and public service applications.

- **Developed** forestry inspection apps with GPS/photo logging and backend dashboards

- **Built** smart cabinet SDKs controlling locks, sensors, and lights via Android + REST APIs
- **Implemented** ad scheduling and monitoring system for factory and retail displays
- **Automated** deployment and monitoring to ensure 99.9% uptime for long-term operations

EDUCATION

Master of Computer and Information Sciences *AUT, New Zealand* Jul 2024 – Oct 2025
Research focus: AI, lightweight model deployment, virtual try-on. Thesis submitted early.

Bachelor of Software Engineering *Hebei University of Science and Technology, China* Jul 2009 – Jun 2013
Received National Scholarship. Trained in Java, databases, and backend system design.

LICENSES & CERTIFICATIONS

• Software Design Engineer Certificate	<i>China Qualification Authority</i>	2019
• Network Communication Security Administrator	<i>China Qualification Authority</i>	2017
• Science and Technology Achievement Award (Smart Manufacturing)	<i>Hebei, China</i>	2020
• IoT Fundamentals (MOOC)	<i>Xi'an Jiaotong University</i>	2020