

# Yuchao (Leo) Zhang



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## SUMMARY

Master's student in **Computer and Information Sciences** at **AUT**, graduating October 2025. Holding a **student visa with full-time work rights** in New Zealand.

Over **10 years of experience in Java backend and full-stack development**, including **Spring Boot**, **MyBatis**, and **microservice architecture**. Built and maintained enterprise systems across **manufacturing**, **messaging**, and **IoT**. Proficient in **Docker**, **Nginx**, **Windows Server**, and **CI/CD pipelines**.

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, Kotlin, HTML, SQL

**Frameworks:** Spring Boot, Spring Cloud, MyBatis, .NET, Android SDK, Vue.js

**Databases:** MySQL, MongoDB, Redis, **SQL Server**, SQLite

**DevOps Tools:** Docker, Jenkins, Nginx, IIS, Git, systemd, cron, shell scripting

**Platforms:** Windows Server (2012–2022), CentOS, Ubuntu, Android, Raspberry Pi

**Windows Server & IIS:** IIS deployment, site binding, SSL configuration, port setup, logs

**System Admin:** Active Directory basics, group policy, remote desktop, firewall rules, shared folders

**IoT & Hardware:** RFID, barcode scanners, relays, sensors, UART/serial communication

**Cloud & File Sync:** Dropbox, OneDrive, Google Drive, SFTP, rsync, basic Azure setup

## EXPERIENCE

### ChatClothes Virtual Try-On (AI Thesis)

*AUT, NZ*

2024 – 2025

**Sole developer** of a multimodal AI system for virtual try-on, submitted thesis 6 months early.

- Designed modular architecture combining **diffusion models**, **YOLO-LC** classification, and **LLM-driven user control**
- Integrated generation and control via **ComfyUI + Dify**, deployed on browser and offline
- Optimized inference on **Raspberry Pi 5**, achieving low-latency performance
- Gained hands-on experience in full-stack AI workflows and edge deployment

### Smart Power Monitoring System (IoT Project)

*Chunxiao Technology Co., Ltd., China*

2022 – 2024

**Java backend developer** for a smart energy management platform supporting mobile-controlled power switches.

- Developed RESTful APIs using **Spring Cloud** for real-time data ingestion, remote switch control, and user dashboard services
- Built gateway software on Android platform to parse **RS-232/RS-485** serial protocols and relay commands to smart switches
- Integrated **MQTT** messaging for bidirectional communication between devices and backend
- Utilized **InfluxDB** for storing high-frequency energy metrics, supporting historical queries and trend visualization
- Enabled core features like overload alarms, scheduling, and remote diagnostics for mobile/web users

### Smart Factory Backend System

*Chunxiao Technology Co., Ltd., China*

2018 – 2024

**Technical lead** for backend architecture of a textile factory system across 5+ sites.

- Designed backend services with **Spring Boot**, managed DBs with **MySQL/Redis**
- Led deployment via **Docker + Jenkins + Nginx** on **Linux (CentOS)** servers
- Integrated industrial hardware: **RFID, barcode, washing conveyors**
- Delivered scalable architecture, increasing production efficiency by **30%+**

<b>Enterprise Messaging System</b>	<i>Chunxiao Technology Co., Ltd., China</i>	2014 – 2023
<b>Core Android &amp; backend developer</b> for cross-platform IM system used by 10,000+ internal users.		
<ul style="list-style-type: none"> <li>Developed messaging backend in <b>Spring Cloud</b>, Android client with <b>NDK-based TCP/UDP</b></li> <li>Handled protocol design, message queues, and session management</li> <li>Processed <b>500K+</b> messages/day with latency under <b>200ms</b>, improving real-time stability</li> </ul>		

<b>IoT Projects &amp; Full-Stack Solutions</b>	<i>Chunxiao Technology Co., Ltd., China</i>	2013 – 2023
<b>Full-stack engineer</b> delivering Android+backend solutions for IoT and public service.		
<ul style="list-style-type: none"> <li>Built apps and APIs for forestry patrols, smart lockers, and ad display units</li> <li>Integrated custom hardware via <b>UART, GPIO, sensors</b>, wrote protocol adapters</li> </ul>		

<b>Other Projects &amp; Maintenance</b>	<i>Chunxiao Technology Co., Ltd., China</i>	2013 – 2023
<b>System integrator and IT support</b> for backend infrastructure and smart hardware systems.		
<ul style="list-style-type: none"> <li>Deployed and maintained <b>Windows Server 2012–2022</b>, including IIS, SSL certs, port configs</li> <li>Integrated hardware such as <b>barcode scanners, RFID readers, smart lockers, and gate controls</b></li> <li>Developed internal tools for serial communication over <b>RS-232/RS-485</b> with custom protocols</li> </ul>		

## EDUCATION

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

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

## LICENSES & CERTIFICATIONS

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