

# Patrick Zhiji Yu

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Australian full-time work rights (valid to Aug 2028)

## EDUCATION

### Master of Computer Science

University of Wollongong

July 2023 – Aug 2025

- GPA: 6.88/7.0
- Achieved High Distinction (HD) in 13 out of 15 subjects
- Coursework: Big Data Management (97/100), Web Development (94/100), Web Server Programming (94/100)

## INVOLVEMENT

### UOW Resident Ambassador

2025

Organized events and activities to foster an inclusive, engaging, and supportive residential community - Bangalay

### UOW EIS Student Mentor

2024

Guided and supported EIS students in navigating the UOW environment, helping them connect with resources, develop social networks, and enhance their overall academic experience.

### UOW EIS Summer Scholarship Program

Nov 2024 - Mar 2025

Awarded a \$6,000 research scholarship

### Stephen FitzGerald Scholarship Program

Oct 2024

Hosted by Australian National University and National Foundation for Australia-China Relations

## PROJECT EXPERIENCE

### Antenna & IT Support Website | Next.js Web

Dec 2024

- Accomplished a IT services platform, as measured by successful paid deployment for a digital agency, by building a Next.js + Tailwind responsive site
- Increased business efficiency, as measured by automated admin/customer email workflows, by integrating Resend
- Tech Stack: Next.js, TypeScript, TailwindCSS, Sanity CMS, Vercel, SEO optimization, project delivery

### SLACA – Student Lifestyle and Academic Convenience Aid | Mobile App

Jan 2025 – May 2025

- Accomplished a modular student lifestyle platform in a team, as measured by earning High Distinction, by designing a FastAPI backend, React frontend, and an LLM-powered chatbot with RAG
- Delivered seamless community services, as measured by adoption of 5 modules, by integrating five distinct full-stack features
- Tech Stack: FastAPI, React Native, PostgreSQL, TypeScript, Python, RAG/LLM integration, teamwork

### EasyParking Management Portal | Full-stack web application

July 2024 – Oct 2024

- Accomplished an end-to-end parking management system, as measured by functional administrator dashboard and active CRUD operations, by developing RESTful APIs and a user-friendly web interface
- Tech Stack: SQLAlchemy, MySQL, Docker, Postman, REST API design

### Soil Swell Potential Prediction | Mobile App

Nov 2024 – Mar 2025

- Accomplished an offline mobile ML tool for soil engineers, as measured by real-time predictions without internet connectivity, by deploying ONNX models on React Native with onnxruntime
- Tech Stack: React Native, Expo, ONNX, sklearn

## PROFESSIONAL EXPERIENCE

### Technical Product Analyst – Cost Management System

July 2021 - Feb 2023

Vanke

China

- Collaborated with software engineers and outsourced IT teams to design and implement a web-based cost management application, ensuring alignment with technical and business requirements
- Conducted system testing, identified functional issues, and worked with developers to deliver reliable features that supported project budgeting, forecasting, and real-time cost monitoring
- Translated complex business workflows into technical specifications, contributing to database structure, user interface design, and system integration planning



UNIVERSITY  
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## TRANSCRIPT OF ACADEMIC RECORD

NAME: Mr Zhiji Yu

STUDENT NUMBER: 8359490

COURSE OF STUDY MCompSc  
DATE QUALIFIED 09/07/2025  
DATE AWARDED 25/07/2025

Credit points accrued to date 96

YEAR/ SESSION	SUBJECT NUMBER	SUBJECT NAME	MARK / GRADE	CREDIT POINTS
<b>* COURSE - Master of Computer Science</b>				
2023 Spring	CSIT881	Programming and Data Structures	90 High Dist.	6
	CSIT882	Data Management Systems	95 High Dist.	6
	CSIT883	System Analysis and Project Management	94 High Dist.	6
	CSIT985	Strategic Network Design	85 High Dist.	6 24
2024 Autumn	CSIT884	Web Development	94 High Dist.	6
	CSIT970	Security Essentials	95 High Dist.	6
	CSIT975	Artificial Intelligence for Cybersecurity	87 High Dist.	6
	CSIT988	Security, Ethics and Professionalism	88 High Dist.	6
	Spring	CSCI927	Service-Oriented Software Engineering	6
		CSIT953	Emerging Topics in Cyber Security	6
		ISIT912	Big Data Management	6
		ISIT929	Concepts and Issues in Healthcare Computing	6
Spring/Autumn	CSIT998	Professional Capstone Project	87 High Dist.	12 60
2025 Autumn	INFO911	Data Mining and Knowledge Discovery	85 High Dist.	6
	MTS9307	Web Server Programming	94 High Dist.	6 12

\* AWARDED WITH DISTINCTION

\* Satisfied the University's Independent Learners Introductory Program

**END OF TRANSCRIPT**

Dated this 25th day of July, 2025  
no alterations or erasures

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Page 1 of 1