

Joe Zhou

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PERSONAL SUMMARY

Master of Computer Science graduate with High Distinction, with hands-on experience building scalable, high-performance web applications using modern technologies including React, Next.js, Node.js, and cloud-native platforms.

Brings a strong business and risk-aware mindset from prior financial experience, applying structured analysis and deterministic problem-solving to improve software reliability and debugging efficiency. Passionate about delivering production-ready, maintainable systems that balance technical quality with real-world business requirements in fast-paced, collaborative environments.

EDUCATION

Master of Computer Science	University of Wollongong	Jul 2023 – Jul 2025
	<ul style="list-style-type: none">Achieved High Distinction Average (90.4/100)Recipient of Postgraduate Academic Excellence Scholarship (2023)	
Bachelor of Economics	Jiangxi University of Finance and Economics	Sep 2014 – Jul 2018
	<ul style="list-style-type: none">Graduated with Distinction	

KEY SKILLS

Technical Skill

- Frontend: TypeScript, JavaScript, HTML/CSS, Tailwind CSS, Shadcn/ui
- Backend: Node.js, Python, PHP
- Database: MongoDB, MySQL, PostgreSQL DB, Redis
- Frameworks: React, Next.js, Express.js
- Developer Tools: Git & GitHub, Docker, AWS, GCP, Vercel, Clerk

Language

- English, Mandarin, Cantonese

WORK EXPERIENCE

SinoPac International Leasing Corp, Dongguan Financial Leasing Specialist	Oct 2018 – Feb 2022
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Description: Backed by SinoPac Financial, provided reliable B2B asset-based financing and corporate liquidity solutions to manufacturing enterprises.

- Managed the full lifecycle of 20+ annual financing cases**, executing rigorous credit analysis and asset controls for projects with individual limits up to **RMB 3 million**.
- Acted as a cross-functional bridge** between Business, Risk, and System teams, translating complex risk protocols into clear system requirements to drive workflow efficiency.
- Ensured strict compliance and risk mitigation for post-lease collateral** through proactive asset verification and contract management, maintaining a high standard of operational security.

INTERN EXPERIENCE

I Ching Walkers Australia Pty Ltd, Sydney IT Intern	Dec 2023 – June 2024
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Description: The leading mobile platform dedicated to Eastern devotional practices and folk customs.

Technologies: Prompt Engineering, RESTful API Integration, Data Preprocessing, Python

- Optimized proprietary LLM performance by **engineering structured prompts and preprocessing classical philosophical texts using Python**, significantly enhancing context fidelity and domain-specific relevance.
- Developed **comprehensive functional test cases using Postman for third-party RESTful APIs**, ensuring system reliability, data integrity, and strict API contract compliance prior to production deployment.

PROJECTS

Portfolio Website | Next.js, Redis, Prisma, Sanity, AWS Lambda | Link: <https://www.joechow.me/>

- Developed a personal portfolio website built with **Next.js**, featuring blog and project showcases and a message board.
- Deployed a Serverless API microservice using **AWS Lambda** and **API Gateway** to **fetch and display real-time LeetCode statistics**, ensuring high availability and cost-effectiveness.
- Architected a type-safe data layer with **Prisma ORM** and integrated **Sanity CMS**, while optimizing data retrieval speeds by implementing **Redis** caching strategies.

3D Snake Game | Three.js, React, Zustand, GitHub Actions | Link: <https://joyjoy998.github.io/3d-snake-game/>

- Developed a cross-platform 3D snake game with a **responsive layout** for PC and mobile devices.
- Designed a modular and scalable **Three.js** game engine based on **OOP principles**, improving code maintainability and runtime performance.
- Decoupled the game canvas from UI layers using **React** and **Zustand** for efficient state management and established a CI/CD pipeline with **GitHub Actions** for automated deployment.

Smart Renting | Next.js, Supabase, Clerk, Google Maps API | Link: <https://www.smartrenting.studio/>

- Developed a responsive rental decision platform using **Next.js**, implementing automated **CI/CD pipelines via GitHub** for seamless deployment to **Vercel**.
- Engineered an interactive property evaluation tool using the **Google Maps API**, enabling users to visually assess rental locations and points of interest.
- Integrated **Clerk** authentication with **Supabase** row-level security to build a robust user management system and a personalized property archive feature.

VOLUNTEER EXPERIENCE

NDC Sydney | Volunteer

Feb 2024

Description: One of the world's leading software developer conferences.

- Supported various aspects of the conference, potentially including registration, session management, speaker assistance.
- Engaged with industry leaders and developers, expanding professional network and communicating industry technology trends.

CERTIFICATES

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| • Azure Fundamentals | May 2025 |
| • Foundational C# with Microsoft | Apr 2025 |
| • Stanford University's Code in Place | Jun 2023 |
| • JS Algorithms and Data Structures | Sept 2022 |

Reference

References available upon request.