

# Joe Zhou

Phone: 0474554657

LinkedIn: <https://www.linkedin.com/in/haochuan-zhou/>

Email: [mrzhouhc@gmail.com](mailto:mrzhouhc@gmail.com)

Github: <https://github.com/joyjoy998>

## 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"><li>Achieving <b>High Distinction</b> Average (<b>90.4/100</b>)</li><li>Recipient of <b>Postgraduate Academic Excellence Scholarship</b> (2023)</li></ul>	
Bachelor of Economics	Jiangxi University of Finance and Economics	Sep 2014 – Jul 2018
	<ul style="list-style-type: none"><li>Graduated with <b>Distinction</b></li></ul>	

## 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
<b>Description:</b> Backed by SinoPac Financial, provided reliable B2B asset-based financing and corporate liquidity solutions to manufacturing enterprises.	
<ul style="list-style-type: none"><li><b>Managed the full lifecycle of 20+ annual financing cases</b>, executing rigorous credit analysis and asset controls for projects with individual limits up to <b>RMB 3 million</b>.</li><li><b>Acted as a cross-functional bridge</b> between Business, Risk, and System teams, translating complex risk protocols into clear system requirements to drive workflow efficiency.</li><li><b>Ensured strict compliance and risk mitigation for post-lease collateral</b> through proactive asset verification and contract management, maintaining a high standard of operational security.</li></ul>	

## INTERN EXPERIENCE

I Ching Walkers Australia Pty Ltd, Sydney   IT Intern	Dec 2023 – June 2024
<b>Description:</b> The leading mobile platform dedicated to Eastern devotional practices and folk customs.	
<b>Technologies:</b> Prompt Engineering, RESTful API Integration, Data Preprocessing, Python	
<ul style="list-style-type: none"><li>Optimized proprietary LLM performance by <b>engineering structured prompts and preprocessing classical philosophical texts using Python</b>, significantly enhancing context fidelity and domain-specific relevance.</li><li>Developed <b>comprehensive functional test cases using Postman for third-party RESTful APIs</b>, ensuring system reliability, data integrity, and strict API contract compliance prior to production deployment.</li></ul>	

## **PROJECTS**

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**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**

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**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                  | <b>May 2025</b>  |
| • Foundational C# with Microsoft      | <b>Apr 2025</b>  |
| • Stanford University's Code in Place | <b>Jun 2023</b>  |
| • JS Algorithms and Data Structures   | <b>Sept 2022</b> |

## **Reference**

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References available upon request.