

Ningxiao Yang

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Areas of Specialisation

- Full-stack Development
- Backend & Deployment
- Game Development

Links

- ningxiao-yang
- NingxiaoYYANG

Languages

English Fluent
Mandarin Mother Tongue

Skills

Languages: C++, Rust, Python, Java, JavaScript
Frontend: React, HTML/CSS
Backend: Flask, REST APIs
Database: SQL
DevOps: Docker, Deployment/Hosting
Tools: Git, CI/CD

Management

Leadership: 3-6 person teams
Delivery: prioritise
Collaboration: feedback loops
Quality: code review
Communication: stakeholder alignment

Hackathons

Apr – May 2025
Microsoft AI Agent
Online

May – Aug 2023
Web3 & AI Hackfest
Melbourne, Australia

EDUCATION

2021 – 2024 **Bachelor of Computer Science**
SYDNEY · The University of New South Wales (UNSW) 📍
Key Courses: Data Structures & Algorithms, Database Systems, Object-Oriented Design & Programming, Web Front-End Programming, Advanced C++ Programming, Modern Programming Problems with Rust



WORK EXPERIENCE

May 2024 – Present **Academic Tutor (C++ & Rust)**
THE UNIVERSITY OF NEW SOUTH WALES (UNSW), SCHOOL OF ENGINEERING · Sydney, Australia 📍
Instruct students in designing, building, and testing C++ and Rust programs; ran code reviews and provided actionable feedback. Explained how Rust ownership/borrowing prevents data races in concurrent code and guided students toward modern, widely-used practices.



Jun 2024 – Oct 2024 **Full-stack Web Developer (Contract)**
JO-EN MEDIA (CLIENT) · Sydney, Australia 📍
Built and shipped a production website with React + Flask; containerised the backend with Docker and deployed via Firebase Hosting. Implemented enquiry-to-email backend workflow and collaborated with a designer to deliver UI to spec.

Nov 2023 – Apr 2024 **Full-stack Web Developer (Contract)**
AUSTRALIAN CHINESE SCHOLARS ASSOCIATION (CLIENT) · Sydney, Australia 📍
Delivered an event management platform (React + Flask + SQL via php-MyAdmin), including authentication, profiles, and admin/user event workflows. Deployed on GoDaddy hosting and supported stability during hand-over.

PROJECTS

May 2024 – Oct 2024 **CourseMapper (COMP3900)**
SYDNEY, AUSTRALIA · UNSW 📍
Led a 6-person team to build a web app that analyses course outlines and exam questions using Bloom's Taxonomy. Implemented backend parsing/classification for CLOs and questions using a pre-trained BERT model; added visual analytics. Applied TDD, CI/CD, and code reviews; iterated with client feedback through regular meetings.



May 2024 – Aug 2024 **SkillVerse (Web3 & AI Hackathon)**
MELBOURNE, AUSTRALIA · Hackathon 📍
Led a 5-person team to build an AI-powered decentralised certification platform using ReactJS and Solidity smart contracts. Implemented NFT credential issuing via IPFS and used OpenAI API to generate an inclusive Skill Tree diagram from user input. Awarded *Aspiring Entrepreneur* and *Best Presentation*.



Sep 2024 – Dec 2024 **MistWalker (Netease KK Game Dev Contest)**
REMOTE · Game Dev 📍
Led a 3-person team to build a top-down cooperative survival game using Y3 Editor. Implemented core systems including movement, damage, UI (static & dynamic), buffs, and item/unit mechanics; shipped under contest constraints.

