

# SHAYNE WANG

Sydney, NSW

LinkedIn | GitHub | Portfolio

## ABOUT

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Master's graduate in Artificial Intelligence from UNSW, independently oversaw the entire development and contributed to the product management of Scypher, a cutting-edge Web3 platform.

## SKILLS

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<b>Frontend</b>	HTML, Tailwind CSS, JavaScript, TypeScript, Next.js, React, Gatsby
<b>Backend &amp; Blockchain</b>	Python, C/C++, Rust, Shell, PostgreSQL, MySQL, Anchor(Solana)
<b>Tools &amp; Testing</b>	Git, Docker, Vercel, Axure, Figma, Canva, Cypress, Catch2

## WORK EXPERIENCE

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<b>Software Engineer</b> <i>Scypher.co</i>	<b>Oct 2024 - Now</b>
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- Built a full-stack solution with Next.js + TypeScript, leveraging client-side rendering for dynamic interactions, streamlined API communication, and optimal performance.
- Integrated Wagmi and Solana APIs in TypeScript, enabling Ethereum and Solana transactions, including wallet connection and token buys.
- Utilized Supabase as the backend database to store transaction records and refine data interactions.
- Developed Solana smart contracts using Anchor (Rust), implementing PDA account management, on-chain price retrieval via Pyth oracle and token purchases by SOL/USDT/USDC.
- Implemented Google Analytics to track site metrics and improve user experience.
- Automated deployments using Git + Vercel, ensuring highly streamlined CI/CD workflows.

<b>Teaching Specialist</b> <i>Golden Education</i>	<b>May 2019 - Nov 2020</b>
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- Reduced teacher costs by 40% for 2,500+ events; recruited 40+ teachers, raising conversion from 4% to 7%. Boosted branding: 10,000+ Weibo followers, 200,000+ Bilibili views, 50,000+ Tiktok plays; analyzed 10,000+ surveys to improve recruitment and services.

<b>Teaching Research Specialist</b> <i>Golden Education</i>	<b>Dec 2018 - May 2019</b>
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- Established standardized teaching plans for the "Financial Management" course, analyzed course performance, and provided academic support for internet-based teaching; trained and supported graduate instructors.

## ACHIEVEMENTS

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<b>SpotFinder:</b> Coding Fest Outstanding Project Idea Award-Usyd	<b>Feb 2024 - Present</b>
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- Developed a scalable platform with React and Go to optimize urban parking, enhancing city traffic flow and reducing emissions.
- Conducted market research, initiated the project, designed a prototype, developed the front-end, and participated in the 2024 UNSW Peter Farrell Cup to enhance our approach. Attracted over 3,500 views. Received the Outstanding Project Idea Award at Coding Fest 2024.

**Sumobot:** 4th place in the final competition-UNSW

**Jun 2023 - Aug 2023**

- Designed, built, and programmed an Arduino Nano-based sumo robot with sensors and actuators, implementing C++ algorithms for movement and control.

## EDUCATION

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**University of New South Wales**

**September 2022 - August 2024**

*Master of Information Technology, Artificial Intelligence*

- Related Coursework: Web Front-End Programming, Human Computer Interaction, Database Systems, Computer Vision, Machine Learning and Data Mining, Neural Networks and Deep Learning, Advanced C++ Programming

**Hefei University**

**September 2015 - June 2019**

*Bachelor of Finance*

- Related Coursework: Linear Algebra, Calculus, Probability Theory
- Outstanding Group Leader (April 2017)
- First Prize in the National College Student Innovation and Entrepreneurship Project (November 2017)

## LIBRARIES AND PROJECTS

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- **Airbrb** (*React, Bootstrap, Ant Design*): an Airbnb clone, online rental platform with property listings, bookings, payments, and user management.
- **Slackr** (*JavaScript*): a messaging platform with extensive chat features like user registration, channel management, real-time messaging, and private chats.
- **Pigs** (*Shell*): a Shell-based version control system, simplifies Git-like operations with features for repository initialization, file indexing, commit management, log viewing, and status checks.
- **Sheepy** (*Python*): a Shell-to-Python transpiler.
- **SolarScan AI** (*Python, SMV, ResNet, CNN, SIFT, ORB*): detects solar panel defects using EL imaging with strong performance across diverse datasets.
- **AgriHealth AI** (*Python, ResNet18, VG166, YOLOv10, CNN*): automated leaf disease ensemble classifier achieving 99% accuracy.
- **Word Ladder** (*C++*): algorithmic library of word transformation generation via breadth-first search (BFS), optimized for finding all shortest possible paths in the word ladder problem.
- **Filtered String View** (*C++*): optimizes operations on filtered strings with operation including character filtering, efficient bidirectional iterators, and implements copy/move semantics.
- **GDWG** (*C++*): graph data structure for node and edge management.