SHAYNE WANG

Sydney, NSW
LinkedIn | GitHub | Portfolio

ABOUT

Full-stack engineer with a Master's in Artificial Intelligence from UNSW. Experienced in leading product strategy and end-to-end development at Scypher, a cutting-edge Web3 platform.

SKILLS

Frontend	HTML, CSS, Tailwind CSS, JavaScript, TypeScript
Backend	Python, C/C++, Rust
Framework	Next.js, React, Gatsby, Anchor(Solana)
Tools & Testing	Git, Docker, Vercel, PostgreSQL, Shell, Cypress, Mocha, Axure, Canva

WORK EXPERIENCE

Software Engineer **Oct 2024 - Now**
Scypher.co

- Built and deployed a high-performance, full-stack application using Next.js, TypeScript, Git, and Vercel, complemented by Google Analytics for actionable user insights.
- Integrated Wagmi and Solana APIs in TypeScript, enabling Ethereum and Solana transactions, including wallet connection and token buys.
- Engineered robust Solana smart contracts with Anchor (Rust), implementing PDA account management, real-time on-chain price retrieval via the Pyth oracle, and enabling token purchases using SOL, USDT, and USDC.
- Implemented Supabase as a scalable backend solution, effectively managing transaction records and optimizing data interactions to ensure data integrity and performance.

Teaching Specialist & Research Specialist **Dec 2018 - Nov 2020**
Golden Education

- 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.
- 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

SpotFinder: Coding Fest Outstanding Project Idea Award-Usyd **Feb 2024 - Present**

- 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

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 Accounting

- 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

- **Airbrb** *(React, Bootstrap, Ant Deisgn)*: 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 ensembgle 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.