SHAYNE WANG

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ABOUT

Frontend software engineer finalizing Master's degree in AI at the University of New South Wales. Currently working on SpotFinder, an award-winning platform that addresses urban parking challenges via optimizing parking space allocation.

SKILLS

Programming Languages	HTML, CSS, JavaScript, React, Python, C/C++, SQL
Development Tools	Git, Docker, Axure, Figma, Canva
Testing Frameworks	Cypress, Catch2 (C++)

ACHIEVEMENTS

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

- An innovative online platform designed to solve urban parking challenges. As urban populations and vehicle numbers increase, finding parking spaces becomes more difficult, leading to congestion and increased emissions. Users can rent out or lease parking spaces, optimizing resource use and benefiting both sides
- Conducted market research, initiated the project, designed prototypes, and developed the front-end website. We also participated in the UNSW Peter Farrell Cup Program - 2024, enhancing our approach
- Attracted over 3,500 views, indicating robust interest and a growing user base.

Sumobot: 4th place in the final competition **Jun 2023 - Aug 2023**

- Design, assemble, and program an Arduino Nano controlled robot equipped with multiple sensors and actuators for a sumo robot competition. The goal was to push opponent robots out of a circular stage.
- Writing and implementing the C++ algorithm that controlled the Sumobot's movements, including sensor integration and motor 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 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)

WORK EXPERIENCE

Teaching Specialist **May 2019 - 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.

Teaching Research Specialist **Dec 2018 - May 2019**
Golden Education

- 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.

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.