

# Surui Liu

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## **EDUCATION**

**Australian National University**, Canberra, Aug 2024 – Dec 2026 Master of Computing GPA: 6.75/7.0  
**ShanDong University**, China, Sep 2020 – Jun 2024 Software of Engineering, GPA: 3.6/4.0

## **TECHNICAL SKILLS**

Languages: JavaScript, Solidity, Java, TypeScript, HTML, CSS, C, Bash

Databases: SQL (MySQL), NoSQL (MongoDB, Firebase)

Frameworks: React, Redux, Node.js, Express, Springboot, Mybatis, Foundry, Hardhat

Tools: Git, Linux(Ubuntu), AWS, VS Code, IntelliJ, Jupyter Notebook

## **WORK EXPERIENCE**

**Morpheus-Tech** ([morpheus-tech.io/](https://morpheus-tech.io/)) Sept 2024 – Present *Web3 Developer, Canberra, Australia*

- Built token deployment system using Solidity and ethers.js with TypeScript
- Analysing trading strategies on Solana and Base using Rust and JavaScript with investment team
- Conducted in-depth research on Layer 1, Layer 2 and modular blockchain architectures
- Designed and maintained on-chain data monitoring system using TheGraph

**QiXin Technology** ([qixin.com.au/](https://qixin.com.au/)) Jul 2024 – Present *Full Stack Developer, Canberra, Australia*

- Collaborated in an agile team to initiate a web console to automate private contract onboarding process
- Created the frontend of onboarding wizard and contract listing page using React and Redux with TypeScript
- Designed JSON data for transferring contract details from the frontend to the backend
- Reduced time to onboard private contracts by 25% and avoided human error

**ShanDaHuaTian** Jun 2022 – Sep 2022 *Backend Developer Intern, Shandong, China*

- Implemented an interactive map with Mapbox API and Google Geocoding API for address selection
- Handled credit cards and received payments from users with Stripe API
- Managed orders and inventory using Shopify API

## **SELECTED PROJECTS**

**Gamefi-2048** Dec 2024 – present (<https://github.com/SuruiLiu/Gamefi-2048>)

- Architected and developed a full-stack blockchain game combining classic 2048 mechanics with GameFi elements using React, TailwindCSS, Ethers.js and Solidity
- Implemented complex smart contract system including ERC20 token for gaming economy, ERC721 for NFT rewards with metadata and traits system, using OpenZeppelin for security best practices
- Designed innovative tokenomics model featuring dynamic mining rewards based on gameplay performance, NFT staking with compound interest, and deflationary burn mechanism
- Built responsive and optimized frontend using React hooks pattern, Context API for state management, integrated with Web3Modal for multi-wallet support

**React based Video Live Streaming Website** Mar 2020 – Apr 2020 • Built the frontend using React and Redux with Redux Thunk and React Router Dom • Integrated a RESTful API to flow data between the frontend and the backend

- Developed CRUD operations on streaming videos and implemented user authentication flow utilizing Google OAuth
- Built reusable user inputs with Redux Form and completed with navigation