

# Resume

## Personal Information

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Nationality: Chinese  
Desired Positions: Contract, Backend  
Work Experience: 1Y+  
Current Status: Employed Expected  
Start Date: As soon as possible

## Professional Skills

- Web3:**
  - Familiar with Solidity, Rust, and Move, and have development experience in smart contracts on multiple public blockchains, such as Ethereum, Solana (main), SUI, Base, and TON.
  - Familiar with the integration of public - chain contracts, including those on Ethereum, Solana, SUI, Base, and TON.
  - Familiar with the Foundry and Anchor frameworks and their corresponding development models.
  - Familiar with the basic usage of tools like The Graph, Alchemy, Pyth, Switchboard, and Chainlink.
- Backend:**
  - Proficient in Golang ecosystem, including frameworks and tools such as Gin, Gorm, GoZero, Etc, Consul, and Gofiber.
  - Proficient in Java ecosystem, including frameworks and tools such as SpringBoot, SpringCloud, Mybatis Puls, Hibernate.
  - Familiar with distributed and microservice development, and the basic usage of various middleware, such as Kafka, RabbitMq, ElasticSearch, XXL - Job, as well as relevant authentication technologies like OAuth2 and 2FA. Familiar with rust, can use Solana-SDK for collaborative development.
  - Proficient in JavaScript, TypeScript, Node.js, and Next.js, Python.
- Linux:** Proficient in commonly used Linux commands. Capable of performing server deployment, maintenance, and troubleshooting on Linux systems.
- Databases:** Skilled in using databases such as MySQL, Redis, and PostgreSQL for project development.
- Other Tools:** Familiar with Git, proficient in basic usage of Nginx, familiar with CICD processes, and experienced with basic commands in Docker and K8s.

## Education

Henan University Minsheng Collage                      Software Engineering                      Bachelor (2021-2025)

## Work Experience

1、MOBIUS ONE PTE. LTD                      (2024/10 – now)                      Contract Backend Engineer                      Remote

Company Location: Singapore. Role: Solana Smart Contract Developer & Backend Developer. Project: Blockchain Gaming Platform  
Duty:

- Smart Contract Modular Refactoring:** Based on the **Anchor** framework, modularize contract logic to enhance reusability and maintainability, and build unified interfaces for betting, drawing, and settlement.
- Multi-Chain Integration & On-Chain Data Parsing:** Integrated multiple public blockchains including **Solana, TON, SUI, Base, and Arbitrum**. Developed event listeners and data parsers to support real-time parsing and storage of on-chain tick-level data.
- Auto-betting and State Machine Design:** Designed and implemented auto-betting logic, enabling off-chain strategy evaluation and on-chain transaction execution based on user-defined **take-profit, stop-loss, and strategy rules**.
- Blockchain Recharge System Setup:** Built a multi-chain deposit system supporting major tokens such as **USDT, USDC, SOL, and TON**. Enabled real-time deposit recognition and on-chain balance updates.
- Authentication and Security Mechanisms:** Integrate **TOTP two-factor authentication** with **Google Authenticator**, and implement unified identity binding for multi-chain logins, supporting address-based account aggregation management.

2、Piesat Information Technology Co., Ltd                      (2024/5 – 2024/8)                      Backend Engineer

This company is one of the top three remote sensing enterprises in China. I worked in the East China region on a project focused on agricultural digital transformation. Participated in backend development during my tenure.

- Duty:
- High-Volume Data Synchronization & API Design:** Independently designed and integrated APIs handling millions of requests, synchronized massive volumes of data, and implemented efficient data filtering mechanisms to eliminate tens of thousands of dirty data entries.
  - Server Maintenance & Deployment:** Maintained project servers, assisted the DevOps team with Docker image uploads, managed K8s nodes, and performed fault diagnosis and project deployment on production environments.
  - System Design & Framework Setup:** Participated in early-stage architecture design. Built a system-level permission management framework based on the RBAC model, implemented a centralized logging system, and integrated an SSO client.
  - API Design & Development:** Translated UI/UX wireframes into functional backend APIs, with a focus on designing and optimizing complex B-end interfaces.
  - Agile Development & Client Communication:** Engaged in agile development processes and maintained direct communication with the client to ensure requirements were accurately captured and project milestones were met.

## Project Experience

1、AI Agent                      Blockchain Backend Engineer

This project aims to develop an intelligent investment agent that assists users in managing their crypto assets (e.g., ETH) by leveraging a large language model (LLaMA) to generate customized investment strategies and automatically execute corresponding transactions. It can be understood as an AI-powered trading bot, covering scenarios such as, but not limited to, cross-chain swaps and transfers. **Tech stack:** TypeScript + Python + LLaMA

**Duty:**

- Integrated APIs from multiple cryptocurrency platforms, including Moralis, CoinGecko, Alchemy, and Band Protocol. Participated in platform selection to ensure accurate data transmission and preprocessing, feeding high-quality data into the LLM for investment strategy generation.
- Evaluated and implemented cross-consortium blockchain solutions using **Hyperledger Cactus**, enabling interoperability across different blockchains and supporting automated cross-chain swap operations.
- Developed an on-chain event listener service using TypeScript, parsing Swap events based on Uniswap V3 contract ABIs.

## 2. AMM

### Smart contract development (Solana)

Designed and implemented an advanced Automated Market Maker (AMM) system on Solana, incorporating multiple DeFi innovations using the Anchor framework and SPL Token standard.

**Duty:**

- Implemented a concentrated liquidity mechanism similar to Uniswap V3, enabling deeper liquidity within custom price ranges.
- Designed four flexible fee models (fixed, dynamic, tiered, and volatility-adjusted) to adapt to varying market conditions and improve execution efficiency.
- Developed a time-weighted moving average algorithm to track real-time market volatility and support an impermanent loss compensation mechanism, enhancing LP yield stability.
- Calculated trade price impact and applied dynamic slippage protection to safeguard against large trade-induced price distortions.
- Project address: <https://github.com/congmucc/anchor-spl-amm>

## 3. Foundry-lottery

### Smart contract development (Ethereum)

This project is an on-chain roulette game developed using the **Foundry** framework. Users can place bets using assets such as USDT, USDC, and ETH, and participate in a lottery. The roulette spin and settlement are triggered through Chainlink Automation and VRF, enabling automated and decentralized execution. **Tech Stack:** Foundry, OpenZeppelin, Golang

**Duty:**

- Designed and developed the core smart contracts for the roulette game using the Foundry framework, covering betting, spinning, and automatic settlement.
- Integrated the OpenZeppelin contract library to support USDT, USDC, and ETH payments.
- Implemented robust contract security mechanisms, including access control, reentrancy protection, and secure fund pool management.
- Leveraged Chainlink VRF and Chainlink Automation to trigger spin and draw events, ensuring high availability, fairness, and tamper-proof randomness from decentralized oracles.
- Developed backend logic in Golang for efficient interaction with smart contracts, optimized latency and throughput in data processing, and improved query performance through efficient data indexing and storage strategies.
- Project address: <https://github.com/congmucc/foundry-lottery>

## 4. RWA Pledge & Auction System

### Smart contract development (Ethereum)

Developed a comprehensive Real World Asset (RWA) on-chain management system using the Foundry framework. The system tokenizes physical assets into ERC-1155 tokens, enabling staking for yield and on-chain auctions, thereby supporting the full lifecycle of real estate asset management. **Tech Stack:** Foundry, Chainlink, OpenZeppelin

**Duty:**

- Designed and implemented the core smart contract architecture based on the ERC-1155 standard using Foundry, covering three modular components: asset tokenization, staking mechanism, and auction system, ensuring scalability and modularity.
- Enabled users to stake real estate-backed tokens to earn yield, with fair reward distribution powered by Chainlink price oracles.
- Designed and integrated cross-chain asset transfer capabilities using Chainlink CCIP, facilitating multi-chain interoperability.
- Implemented automated asset price update logic with Chainlink Functions to ensure reliable value anchoring of tokenized assets.
- Project address: <https://github.com/congmucc/rwa-pledge-auction>

## Other

- Contributed to open-source projects on GitHub, submitting PR to repositories such as **solana-anchor-go** and **sui-go-sdk**.
- Possess strong learning capabilities and continuously document and optimize code on GitHub. Below are recent commit records.

1,892 contributions in the last year

Contribution settings ▾

