# Resume

## Personal Information


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Nationality: Chinese
Desired Positions: Contract, Backend
Work Experience: 1-2Y
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, Etcd, 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 College** **Software Engineering** **Bachelor (2021-2025)**

## Work Experience

### 1、MOBIUS ONE PTE. LTD (2024/10 – now) Contract Backend Engineer (Solana+Go) 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.
- **Commission rebate mechanism and tiered incentive design**: Implemented a rebate logic system based on betting amounts, supporting two-way commission distribution between uplines and downlines. Commission rates are allocated according to user levels, and corresponding rebate amounts are issued accordingly.

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

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 — Backend development (Python+TypeScript)

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、Trade-Robot — Backend development (TypeScript)

This project aims to develop a multi-chain DeFi intelligent trading bot that provides users with trading analysis, attack protection, and smart routing services. It covers scenarios such as cross-chain trading, whale monitoring, price aggregation, and simulated trading. Tech Stack: TypeScript, Node.js, WebSocket, Telegram Bot API

**Duty**:

- Implemented MEV attack detection by monitoring the mempool via WebSocket and parsing pending transactions.
- Developed a multi-DEX smart routing engine, integrating major DEXs such as Jupiter and Raydium for route optimization and price impact calculation.
- Built an on-chain data parsing system, including a DeFi transaction calldata decoder and multi-chain event listener to support Swap event parsing and contract position direction recognition.
- Designed a multi-chain monitoring system to enable real-time monitoring of ETH, SOL, BTC, and Hyperliquid, and developed whale transaction detection and wallet balance tracking functionalities.
- Implemented concurrent price aggregation with system stability ensured through Z-Score-based anomaly detection and a circuit breaker mechanism.
- Project address: https://github.com/congmucc/tg-bot

### 3、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

### 4、foundry-lottery — Smart contract development (Ethereum)

This project is a roulette game based on the Foundry framework. Users can participate in this game and place bets. The roulette utilizes on - chain events (Chainlink Automation + VRF) to trigger a timed settlement mechanism. Users can use USDT, USDC, and ETH to participate in the lottery.Tech stack: Foundry+Openzeppelin+Golang

**Duty:**

- Developed the smart contract for the on - chain roulette game using the Foundry framework, and designed the game logic, including user betting, roulette spinning, and automatic settlement functions.
- Integrated the OpenZeppelin contract library to support token payments (USDT, USDC, ETH) and ensured that the smart contract complied with the ERC - 20 standard.
- Designed and developed the security mechanisms for the smart contract, including access control, protection against re - entry attacks, and secure management of the fund pool.
- Implemented the invocation and interaction of the smart contract using Golang.
- Project address: https://github.com/congmucc/foundry-lottery

## 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.