

# pseudoyu | Yu ZHANG

Blockchain Engineer

[www.pseudoyu.com](http://www.pseudoyu.com)

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✉ pseudoyu@connect.hku.hk    ☎ +86 15382305580    📍 Hangzhou, China, CN

## Education

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### The University of Hong Kong

Master of Science Electronic Commerce & Internet Computing

Sep 2020 – Dec 2021

Courses: Blockchain and Distributed Ledger; Artificial Intelligence and Machine Learning; Data Mining

### Wuhan University of Technology

Bachelor of Arts English

Sep 2015 – Jul 2019

Courses: Internet Large-Scale Data Analysis; Mathematical Statistics; Translation Theory and Practice

## Work

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### HyperTrade

Co-founder | Technical Lead

Jul 2025 – Present

- **High-Performance Rust Trading Engine:** Integrated Hyperliquid Rust SDK with Tokio async runtime for optimized concurrency; Developed high-performance data pipeline in Rust for real-time L2Book price data processing; Integrated Redis caching layer and PostgreSQL (SeaORM) time-series storage, supporting millisecond-level market data queries
- **Automated Trading Framework/Platform:** Developed proprietary Perp DEX trading framework, integrating Hyperliquid HyperEVM CoreWriter contract for on-chain fund pool custody; Implemented multi-strategy parallel execution engine; Extended support for various Perp DEXs
- **Mobile & API Architecture:** Built high-performance REST API gateway with Rust + Axum framework following OpenAPI specifications, integrated with SwiftUI and Flutter clients; Implemented Privy social login and wallet creation
- **Team Management & Development:** Led **5-person** technical team, established data governance standards and API design specifications ensuring data quality and system stability; Completed MVP launch in **2 months**, participated in Hyperliquid HLH Hackathon Builder Codes & Monetizable Integrations track

### RSS3

[rss3.io](https://rss3.io)

Full-Stack Developer | Smart Contract Developer

Mar 2023 – Jul 2025

- **Large-Scale Data Infrastructure Development:** Led RSS3 Node V2 refactoring and upgrade, building high-performance ETL service supporting **10+** blockchain networks and **50+** projects; System runs **200+** Kubernetes Pods, handling **100,000 TPS** peak traffic, storing **50TB+** on-chain data, providing data services for RSSHub, Firefly, Hoot.it and other renowned applications; Core protocol secured **\$29M** funding from top investors including **Coinbase Ventures, CoinShares Ventures, DWF Labs**
- **Distributed System Architecture Optimization:** Designed and implemented three-tier data indexing architecture (DataSource/Worker/Task), upgraded from V1's Go/Postgres/RabbitMQ to V2's Go/CockroachDB/Kafka architecture; System deployed by renowned partners including **Google Cloud, Sky9 Capital, Klin, BlockPi**, processing **400M+** cumulative requests
- **Smart Contract & AI Agent Innovation:** Developed on-chain incentive mechanism based on Crossbell Protocol, building economic models for dApps like xLog; Open-sourced **OpenAgent Framework**, integrating LLMs with RSS3 network, exploring Web3+AI application paradigms
- **On-chain Contract Development:** Developed on-chain business smart contracts based on Crossbell social protocol, designed on-chain incentive layer for dApps like xLog; Explored smart contract development, deployment, and upgrade best practices (based on Foundry framework)

## Zhigui Technology

zhigui.com

Blockchain Engineer | Cross-chain Technical Lead

Jul 2021 – Mar 2023

- **Team Management & Project Delivery:** Led **10-15 person** technical team, directed technical solutions and implementation for major clients including China Unicom and China Merchants Bank, ensured on-time delivery of **3** key projects
- **Cross-chain Architecture & Technical Innovation:** Designed cross-chain solutions based on Cosmos SDK, developed IBC modules and adapters; Achieved interoperability with **5** consortium chains including Hyperledger Fabric and FISCO BCOS, optimized block confirmation time from **2 seconds** to **800 milliseconds**
- **R&D System & Process Optimization:** Established GitFlow workflow and DevOps system based on ArgoCD, promoted CI/CD automation, reduced release cycle from **2 weeks** to **5 days**; Developed technical standards and new employee training programs

## Projects

### Web3Insight

web3insight.ai

Founder, Full-Stack Developer

Web3 Open-Source Data Index System

- **High-Performance Data Processing Engine:** Built ETL pipeline using Rust, processing **TB-scale** GitHub Archive datasets, handling **10B+** total GitHub events and parsing **100M+** Web3 ecosystem data; Integrated **200+ mainstream ecosystem** data, with deep collaboration with core ecosystems including **Starknet, Solana, Arbitrum**, etc.; Shortlisted for **Amber Group BUIDL\_QUESTS 2025**, exhibited at **KBW2025** in Seoul
- **Massive Data Cleaning & Storage System:** Built decoupled stream processing with Rust Tokio JoinSet + async\_channel for file parsing and DB writes, supporting **TB-scale** data cleaning and deduplication; Leveraged Rust memory safety features to ensure **billion-scale** concurrent data writes (**100k/batch**) consistency, time partitioning + triggers for data table synchronization
- **Distributed Query Service & Data Warehouse:** PostgreSQL partitioned tables storing **billion-scale** event data, optimized query performance through connection pooling (deadpool-postgres) in Rust; Built multi-layer indexing and materialized views supporting **TB-scale** data retrieval, batch query response time reduced to **seconds**

## RSSHub

[github.com/DIYgod/RSSHub](https://github.com/DIYgod/RSSHub)

Maintainer, Core Developer

GitHub 38k+ Stars | World's Largest RSS Aggregation Network

- **Distributed RSS Network:** Core developer maintaining the world's largest RSS aggregation network, contributed **170+ commits**, resolved **100+ issues**; Supporting **5,000+** globally distributed nodes, serving **millions** of daily users with content aggregation services; Contributed **50+** data source routes covering social media, news, academic papers and multiple domains
- **High-Concurrency Data Collection Architecture:** Optimized high-performance scraping framework supporting **high QPS** concurrent data fetching, processing **10M+** daily content updates; Built intelligent anti-scraping strategy library including dynamic proxy pools, request fingerprint randomization, distributed task scheduling, ensuring **90%+** availability for popular routes; Optimized caching strategy, significantly improved Redis cache hit rate
- **Data Standardization & Quality Assurance:** Developed unified data cleaning pipeline, processing **1000+** heterogeneous data source format conversions; Implemented RSS/Atom/JSON Feed multi-protocol adapters, ensuring **TB-scale** content data standardized output; Established data quality monitoring system with **90%** automated test coverage, ensuring data accuracy and timeliness
- **Ecosystem Integration & API Services:** Providing data access services for Web3 applications including RSS3, Firefly, Folo, with monthly API calls exceeding **100M**

## ShareX

[rwa.sharex.network](https://rwa.sharex.network)

Full-Stack Developer, Smart Contract Developer

RWA Solution

- **RWA Asset Protocol Development:** Led full-stack development of ShareX RWA platform, designed and implemented DSHARE data on-chain contract (**35,000+** transactions, see [opBNB Scan](#)), ERC1155 RWA asset contract (**60,000+** transactions, see [BSC Mainnet Scan](#)), staking contract (**16,000+** transactions, see [BSC Mainnet Scan](#)); Built backend Indexer service for real-time on-chain data indexing and querying, stably supporting production environment
- **BNBChain Ecosystem Deep Collaboration:** Selected for **Most Valuable Builder (MVB) Season 10 Cohort**; Participated in **BNB Chain 5th Anniversary Celebration**; Submitted proposal through BAP, collaborating with BNBChain technical team to advance **RWA Toolkit IRL standards** development, promoting RWA asset standardization
- **High-Performance On-chain Infrastructure:** Independently developed frontend dApp integrating Web3 wallet and smart contract interactions; Optimized Gas Fee by **40%** reduction, achieved zero vulnerabilities in contract security audit; Supported **50,000+** active users' RWA asset management needs; Built smart contract system supporting **110,000+** on-chain transactions, implementing full lifecycle management for RWA asset minting, circulation, and staking; Developed high-availability Indexer service handling multi-chain data synchronization, providing millisecond-level data queries for frontend applications

## Side-projects

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### Folo

[github.com/RSSNext/Folo](https://github.com/RSSNext/Folo)

Maintainer | GitHub **33k+ Stars** | AI RSS Platform

### Blockchain Beginner's Guide

[guide.pseudoyu.com](https://guide.pseudoyu.com)

Author | SEO Top3 for keywords "Blockchain Introduction", "Smart Contract Development"

Skills

Backend Development

Golang

Rust

Node.js

PostgreSQL

Blockchain Development

Cosmos

EVM

Frontend Development

React

Next.js

TypeScript

DevOps

Kubernetes

Docker

GitHub Actions

Languages

English

Fluent

Certifications: TEM-8, IELTS; Fluent in spoken English, able to quickly comprehend English materials and write professional technical documentation

Chinese

Native

Native speaker