Dianhai Wang

AI Full-Stack Engineer | Go / Python / TypeScript

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Professional Summary

Software engineer with 11 years of experience, specializing in Go/PHP backends and e-commerce transaction systems, with additional Vue, WeChat Mini Program and Python AI development experience. Delivers requirements analysis, data and API design, frontend/backend development, third-party integrations and deployment.

Experienced in orders, wallets, payments, subscriptions, distribution and inventory. Recent projects include business agents, knowledge retrieval, cloud-phone automation and network proxy services.

Technical Skills

Backend: Go, Gin, go-zero, GORM, PHP, Laravel, Hyperf, Python, FastAPI, REST APIs, microservices.

Frontend: Vue 3, Element Plus, JavaScript, TypeScript, WeChat Mini Programs; React/Ant Design Pro project experience.

Data and transactions: MySQL, PostgreSQL, Redis, Oracle integration, transactions, conditional updates, payment callback idempotency, asynchronous tasks.

AI and infrastructure: LangChain/LangGraph, RAG, Linux, Docker, Nginx, Caddy, GOST, AWS Global Accelerator.

Recent Project Experience

- **B2B Sales Lead Workflow Toolkit**: Built two independent Python prototypes and ran lead cleaning on 5,000 synthetic records, combining model-assisted matching with rules and reviewable exports.
- **Oracle Data Assistant**: Connected a React workspace to controlled, read-only Oracle queries and added rule-path regression for standard and paraphrased questions.

Work Experience

Guangzhou Yunxi Guangnian · Full-Stack Software Engineer · Oct 2025 - Sep 2026

- Developed core order and payment systems for cloud-phone and subscription products, covering wallets, top-ups, renewals and refunds.
- Integrated UPay and Payssion payment requests and callbacks, including signature, amount and currency checks, payment states and wallet transaction records.
- Built GOST forwarding-chain management, Caddy WSS video stream proxies and a gateway integrated with AWS Global Accelerator; integrated cloud-phone access and forwarding paths.

Independent Development · AI Applications · Mar 2025 - Oct 2025

- Delivered a product RAG assistant, AI storybook and marketing content generation applications, including model integration, web features and deployment.

Guangzhou Lianfei Network Technology · Go Backend Developer · Apr 2022 - Dec 2024

- Developed cross-border purchasing orders, carts and two-tier distribution using go-zero. Contributed to IM support, warehouse picking and maintenance of existing Java systems.

Guangzhou Banchengyun Information Technology · PHP Developer · Jun 2019 - Jan 2022

- Developed SaaS order workflows, carts, payment, fulfillment, after-sales and reporting; integrated marketing plugins and external ticketing services.

Selected Projects

Cloud Phone Order and Payment Platform

Yunxi Guangnian work project | Go / go-zero / Gin / MySQL / Redis / UPay / Payssion

- Implemented orders and subscriptions for purchases, renewals and expiry. Coordinated order state with external cloud-phone resources.
- Connected payment requests, callback processing, wallet crediting and transaction records. Validated Payssion callback signatures, currencies and paid amounts.
- Prevented duplicate crediting using conditional order updates and transactions. Checked related orders and refundable amounts, and recorded refund balance changes.

Sales Knowledge Agent and WeChat Mini Program

Python / FastAPI / PostgreSQL / pgvector / Vue 3 / WeChat Mini Programs

- Built conversation and sales-plan delivery features, a Vue admin console, and backend modules for users, entitlements, points, orders and feedback.
- Integrated language models and WeChat content moderation. Delivered structured answers, permission-aware retrieval, moderated output segments and asynchronous plan progress.
- Implemented point reservation, settlement and refunds, staged task recovery and model usage accounting. Backend regression suite: 753 non-live tests passed.

Oracle Fiscal Data Assistant and Dashboard

Personal project | React / Ant Design Pro / TypeScript / Fastify / Spring Boot

- Connected to a real Oracle 10g database and built fiscal analysis and natural-language query pages, integrating a frontend dashboard, agent gateway and Java data service.
- Used structured plans and controlled SQL templates for multi-year data access, with execution confirmation, SSE progress, sensitive-field protection, audit logs and CSV export.

Network Proxy and Video Stream Forwarding

Go / Gin / GOST / Caddy / WebSocket / AWS Global Accelerator / Redis / RabbitMQ

- Created and deleted multi-hop forwarding chains and proxy mappings through GOST APIs. Managed port allocation, connectivity checks, traffic collection and user status synchronization.
- Provided HTTPS/WSS entry points with Caddy. Used Go and Redis for cloud-phone session mapping, bidirectional video stream forwarding, heartbeats and timeouts; packaged services with Docker.
- Developed a SOCKS5 gateway integrated with AWS Global Accelerator, with mapping management, quotas and traffic billing. Reported usage batches through a database Outbox and RabbitMQ.

AI Development and Knowledge Sharing

- Uses Codex, Claude Code and Cursor for AI-assisted development, with practical work on harnesses, context and tool workflows.
- Contributed sales-training, cross-platform price-comparison and product-sourcing skill packages to Workbuddy.
- Led team training on AI tools and skills, sharing application methods and project experience.

Education and Certification

Zhengzhou Economic and Trade Vocational College | Diploma in Financial Accounting | 2007 - 2010

College English Test Band 4 (CET-4)