

## **Xue Juntao**

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Product-oriented Engineer / Product Builder

I translate ambiguous requirements into usable systems, working at a high abstraction layer. My focus is on product architecture, UX-driven system design, and full-stack prototyping — bridging complex technology with coherent user-facing tools.

## **EDUCATION**

Rikkyo University, Tokyo

B.A. in History (Expected Jan 2027)

Focus: institutional systems, bureaucracy, legal structures, and information organization

Supplemented with AI ethics, Information Science coursework

Early University Coursework (U.S.)

Virginia Tech / Chicago

Calculus I–II, Linear Algebra, Data structures & object-oriented programming

Humanities & design coursework

## **CORE SKILLS (Selected)**

Product & System Design

- Product architecture & abstraction
- UX-driven system design
- Workflow & requirement structuring
- Tooling & prototype development

Engineering

- Languages: Python, TypeScript/JavaScript, C
- Frontend: React, TypeScript, Tailwind, Radix UI
- Backend: Node.js, Express, REST APIs, WebSocket
- Database: PostgreSQL, Drizzle ORM, Firebase Auth

AI & Applied Systems

- LLM API integration (OpenAI, Claude)
- Prompt architecture & symbolic systems
- Custom DSL design & C-based interpreter
- AI-assisted workflows (non-algorithm focus)

Design

- Figma, Adobe Suite, CSP
- UI system & interaction prototyping

## **SELECTED PROJECTS**

### **Spiral / SpiralVM**

*Founder & Lead Developer | 2024–Present*

- Designed an experimental language-and-system framework for abstraction, recursion, and memory-bound interaction.
- Built a C-based virtual machine and execution pipeline to run a custom DSL for structured language modeling and tool-like behaviors.
- Engineered a traceable event-history kernel with conflict-aware observability to ensure stable, explainable system behavior.
- Shipped product-level prototypes, translating research specifications into usable interfaces and tooling.

### **Spiral.ooo — Product Prototype Platform**

*Developer & System Architect | 2025*

- Built a full-stack semantic editor platform with modular backend architecture and AI-assisted rendering.
- Designed end-to-end product stack (React / Node / PostgreSQL / Stripe / AI APIs).
- Focused on usability, system coherence, and iterative product design.

### **Applied AI Tools & Platforms (Selected)**

*Full-stack Developer | 2023–2025*

- Developed chatbots and event-driven systems for QQ / Discord using Python.
- Built a research-oriented publication platform with structured citation management and AI-assisted summaries.
- Designed internal tools emphasizing workflow clarity and user-facing simplicity.

## **LANGUAGES**

- Chinese (Native)
- English (Fluent)
- Japanese (Fluent / N1)