

Xue Juntao

Tokyo, Japan

r@rec.ooo

pf.rec.ooo

git.rec.ooo

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)