Runze YUAN 袁润泽

Full-stack developer, Java / React and applied AI

Six-month end-of-studies internship from 4 May 2027, Paris area
Available now during in-company weeks; open to a permanent role afterwards

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runze.dev, interactive version
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github.com/LeslieY0919, Cergy (Paris area)

Final-year engineering student at CY Tech (taught in French), after 2 years 8 months in industry. **Sole developer of an MES / IIoT system in production at a leather factory**: machine data collection, data quality, two Spring Boot back ends, eight web and Android apps, an AI analysis agent. Designed and shipped by orchestrating AI agents (Claude Code, Codex, Cursor).

Experience

Jiarun IOT jiarun.tech, MES / IIoT for tanneries — May 2026 → present
Freelance full-stack developer, sole engineer on the whole software

- Designed and shipped to production, with AI agents, a leather manufacturer's system (version 1.4.11 of 12 Oct 2026): **2 back ends** in Spring Boot (Java 25, PostgreSQL 16, TimescaleDB, Flyway) and **8 apps** (React 19 + TypeScript, Next.js, PWA, 4 Android Kotlin / Compose apps) on a single OpenAPI contract; **49 releases** in 5 months, **≈ 10,500 tests**.
- Made machine data collection reliable: MQTT protocol (Mosquitto, QoS 1), a message is acknowledged only once stored, duplicates dropped by sequence number; suspicious readings flagged, never rewritten; no invented zeros.
- Diagnosed and fixed errors on real data: output under-counted by **54%** (new algorithm, history recomputed after a rehearsal on a copy of production); an MQTT ID shared by 8 machines (8–33% coverage); material overstated **×4.5**; a production incident fixed the same day, **≤ 79 s** of downtime.
- Built an AI analysis agent without a framework (Java): read-only SQL per factory and role, charts whose numbers come from the server and never from the model, a help mode over 32 reviewed articles.

Ruby Tech ordering and loyalty platform for restaurants — May 2026 → present
Full-stack developer, part-time permanent contract after a 4-month internship

- Sole owner of the **web and WhatsApp AI assistant** (194 of the module's 199 commits): one answer path for every channel, five checks before calling the model, every proposal re-checked by the server, WhatsApp Business API (signed messages, 24-hour window), automatic evaluation.
- Contributed to the React + TypeScript back office and the Spring Boot 3 API (Java 21, PostgreSQL 16, Redis) under an OpenAPI contract; six languages.
- Tooled field deployment: servers installed automatically in restaurants, Android tablets in kiosk mode, a self-hosted operations centre (reverse tunnels, metrics, signed updates).

Tangshan Huahong Technology China — Sept 2021 → Apr 2024
Front-end developer (Vue 2)

- Built in Vue 2 and JavaScript the web interfaces of 3D scanning equipment and of a face-recognition payment terminal.

Personal project

Jellydog jellydog.fr, live — 2026 → present

- Designed and launched a vocabulary app for Chinese-speaking students, with AI sentence correction: strict JSON output, a filter before the model, thresholds set before measuring (word use judged correctly **95.2%**, wrong use accepted **1.8%**, answer within **2.1 s** in 95% of cases). Go, React + TypeScript, PostgreSQL 17.

Education

CY Tech, CY Cergy Paris Université
Engineering degree in computer science, embedded systems track
2025 → 2027

Xidian University, Xi'an
Bachelor's in electronic and information engineering, Sino-French programme
2017 → 2021

Skills

Back end
Java 17–25, Spring Boot 3 / 4, Go, PostgreSQL, TimescaleDB, Redis, MQTT, Flyway, OpenAPI

Front end
TypeScript, React 18 / 19 (TanStack, Zod), Next.js, Vue, Tailwind, PWA

Mobile
Android Kotlin (Compose, Hilt, Room)

Applied AI
agents with tool calling, structured outputs, threshold-based evaluation; Claude Code, Codex, Cursor

Quality and operations
JUnit, ArchUnit, Testcontainers, Vitest, Playwright, Docker, Nginx, Prometheus, CI

Languages

French B2 (engineering degree taught in French)
English B2
Chinese, native

In figures

8	apps on a single OpenAPI contract
49	releases in 5 months
×4.5	material error found by mass balance
95.2%	word use judged correctly by the AI (threshold 90%)

Figures as of 12 October 2026, from private repositories.

Interactive version and details: runze.dev/en/