

Peng Zihao

Distributed systems and AI Agent engineering.

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Experience

AI Full-Stack Engineer (Xiaomi)

Jul 2024 - Present

- Developing task scheduling and workflow platforms supporting 2M+ monthly process instances, 1M+ daily algorithm tasks, and 40+ business lines.
- Building an internal agent platform with 10+ reusable workflows serving 70+ users, isolated runtime environments and execution visibility.

Selected projects

Agent Collaboration Engineering Platform

Jan 2026 - Present

For R&D and business teams, turns repetitive, multi-step tasks into reusable Agent workflows, lowering the barrier to AI adoption and improving collaboration and delivery on complex tasks. Durable sessions, layered context and Trace replay support interruption recovery and issue investigation.

- 10+ reusable workflows serving 70+ users.

Dataflow Engine Platform

Jul 2024 - Present

Decouples the control and execution planes, combining asynchronous Webhooks with reliable workflow orchestration to close the end-to-end data loop: data collection → algorithm processing → human operations → automated cleaning → compilation and delivery back to vehicles.

- Reduced new-business integration time by 40%.
- Supported 2M+ monthly workflow instances across 40+ business lines.

Unified Algorithm Task Scheduling Platform

Jul 2024 - Present

Provides unified, visual scheduling, execution and analysis of algorithm tasks, with priority scheduling, Worker health management and elastic scaling to improve task execution efficiency and compute utilization.

- Supported 1M+ daily algorithm tasks.
- Improved resource utilization by 50%.

Open source

PI-Desktop | 7k+ GitHub stars (2026-10) | github.com/vastsa/PI-Desktop

A local-first, extensible desktop workspace for AI agents.

Education

Hunan University of Technology | B.S. in Computer Science and Technology

Sep 2020 - Jun 2024

Skills

Backend & data: Java / Spring Boot / MyBatis / MySQL / Redis / RocketMQ

Systems & infrastructure: Kubernetes / gRPC / Distributed transactions / Task scheduling

Agent engineering: Agent SDK / MCP / Skills / SSE / Trace / Perf