Shangru Li

Software Engineer | AI Tools & Backend Systems

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Software engineer building AI developer tools and backend systems; independently ships ToolFlow and open-source AI tooling.

EXPERIENCE

Veeva Systems

Mar 2026 - Present

Software Engineer - Vault CRM

- Develop Campaign Manager's Spring Boot services and integrations; lead its backend AI initiative. Co-developed a workflow from specification to merge with human approval and independent review.
- Build reusable agent skills with bounded tasks, dependencies, and acceptance criteria; generalizing the implementation skill for two other teams.
- Own Agent KB, a curated Python/SQLite context layer grounding coding agents in code, conventions, and domain rules with source and revision traceability.
- Selected as one of five AI experts for an engineering learning program; lead a peer group and host AI office hours and skill reviews across three teams.

SS&C Technologies

May 2021 - Mar 2026

Software Engineer, then Senior Software Engineer

Promoted to Senior Software Engineer in November 2022.

- Sole developer of a Calastone adapter shipped in four months, with database coordination, idempotent submissions, and retries. Owned Java/Spring microservices and reactive REST integrations through production support.
- Replaced a mainframe processing path after three months of parallel verification; streamed 30-50 million records per file with asynchronous S3 uploads.
- Built GraphQL interfaces and PostgreSQL-backed configuration so business users could change file mappings without redeployment.

INDEPENDENT APP & AI TOOLING

ToolFlow - Independently built and shipped an iPhone/iPad toolkit with calculators, converters, QR scanning, and document utilities, using structured AI workflows from requirements to release. Swift, SwiftUI.

Memory - Open source. Encrypted context store for AI agents, with source-backed retrieval and owner-approved updates. Python, MCP, SQLCipher.

Ledger - Open source. Exact financial queries for AI agents, with read-only access and separate reviewed proposals. Python, MCP, SQLite.

SKILLS

AI systems: Agent orchestration, agent skill development, context engineering, retrieval, MCP server development
Reliability: Requirements traceability, deterministic checks, regression testing, human approval workflows
Engineering: Python, Java, SQL (SQLite, PostgreSQL), Spring Boot, Kafka, Docker, Kubernetes, Swift, SwiftUI
AI tools: Claude Code, Codex
Languages: English, Mandarin Chinese

EDUCATION

York University

2015 - 2020

Honours Bachelor of Computer Science, Software Development Stream