Sanshi (Martin) Zhang

AI Operations · Agent Workflows · Finance Systems

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Authorized to work in Canada and China · Available immediately · English & Mandarin

SUMMARY

Finance operations professional who builds AI systems. By day I validate mortgage payouts where every number must reconcile; beyond that I build agent workflows, eval harnesses, and AI products where rules decide, AI explains, and people sign off.

PROFESSIONAL EXPERIENCE

Payout Administrator · Equitable Bank, Toronto, ON — Apr 2026 – Present

- Prepare and validate **200+ mortgage payout statements a month at 99% accuracy** across residential and commercial portfolios exceeding **$200M** in lending exposure.
- Verify principal, accrued and per-diem interest, prepayment penalties, fees, and payment history; reconcile inputs against mortgage records and escalate variances before any statement is released.
- Coordinate with **100+ law firms, lenders, brokers, and internal teams** to close urgent requests with auditable records.

Legal & Executive Operations Coordinator · JYD LLP, Toronto, ON — Mar 2025 – Apr 2026

- Supported **two founding partners** across legal and mortgage practices with transaction packages and correspondence.
- Kept **100+ active client matters** on schedule by turning requests into tracked tasks, deadlines, and clear deliverables.
- Maintained **1,000+ legal and financial records** in Clio and Salesforce for compliance, trust accounting, billing, and retention.

Client Manager Intern — Commercial Real Estate · Jianghai Securities, Shanghai — Jun 2023 – Aug 2023

- Supported **50+ SME and commercial real estate clients**; summarized revenue, leverage, and collateral data for reviews.
- Built Excel trackers for **20+ financing cases** and handled **300+ weekly client interactions** in Mandarin and English with accurate CRM follow-ups.

SELECTED AI PROJECTS

Run Replay — AI Operations Exception Review System · Next.js API, Claude, Node test, Postgres schema — 2026

- Split payroll checks into a **12-rule deterministic engine** that decides and an AI layer that only explains: schema-validated briefs, PII redaction, prompt-injection probes, and a deterministic fallback when the model fails.
- Built a **74-case evaluation harness** with recorded failures: **98.5% recall, 100% precision, 0% false alerts** on boundary cases; tests run in CI.

War Trader — Pixel-Art Action Trading Game · Godot 4.7, GDScript, Claude Code agent team — 2026

- Directed a project-scoped AI studio (**49 role agents, 119 skills**) to ship **16.9K lines** test-first: **15,183 tests passing**, a ten-stock event-driven market, five combat routes, and 19 endings.
- Balanced with simulation (2,000 market games per difficulty, bot combat sweeps) and cut stutter to **3 frames over 100 ms**.

JazzTor — Real-Time 3D Jazz Listening Room · React Three Fiber, three.js, Blender Python, Playwright — Ongoing

- Built a 3D web product (**14.3K lines**) with an operable turntable, an OpenStreetMap Toronto jazz map, and a walkable museum; every object is generated by Blender scripts.
- Passes **78/78 automated QA and functional checks** on two GPUs; adaptive quality holds 75 fps on an RTX 2080 SUPER, 47–64 fps on integrated graphics.

GEO Brand Skills & Product Design Mentor · Claude Code Skills, open source on GitHub — 2026

- Published reusable agent skills: a GEO audit that measures how often AI assistants mention and cite a brand, an optimizer that turns gaps into a prioritized backlog and re-tests, and an AI product-design tutor.

EDUCATION

Honours Bachelor of Arts — Economics; Communication, Culture, Information & Technology — Dec 2024

University of Toronto Mississauga · Coursework: commerce, digital finance, financial & data analysis, web & UI design
Continuing study: CFA Level I candidate

SKILLS

AI systems & agents	Claude Code skills and agent teams, structured outputs, human-in-the-loop review, prompt design, RAG fundamentals, local models (Ollama)
Evaluation & QA	Eval harnesses, precision/recall analysis, DeepEval, multi-model comparison, failure analysis, test-driven delivery, Playwright visual QA
Engineering	Python, SQL, TypeScript, React, Next.js, Node.js, Godot/GDScript, three.js, Git, Docker, CI
Finance operations	Reconciliation, interest and fee validation, exception handling, internal controls, audit trails, Excel, Power BI, Salesforce, Clio