

Martin Saul

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Backend engineer specializing in control planes for fleets: orchestration, scheduling, and credential infrastructure. 15 years across Google, Amazon, and consulting, building distributed systems in Kotlin, Java, and Python. Architects and operates a self-hosted multi-agent AI platform that ships production systems under human direction.



Full detail & projects →
martinsaul.com

>EXPERIENCE

Software Engineer, Google Cloud, Engineering Productivity (Automation & Bots)

Kirkland, WA (Hybrid) · Jul 2024 - Present

- Co-designed elastic worker orchestration for a dev-infra automation fleet (7,500 hot instances, 15 cells) on Borg, owned solo from POC through production. Replaced single-template provisioning with ephemeral per-task workers (right-sized profiles, completion-driven teardown); tiered scheduling is projected to reclaim about half of production fleet capacity.
- Redesigned fleet authentication so the orchestrator holds credential custody. Replaced per-worker refresh-token self-management with short-lived access-token vending, and removed hardcoded secrets and credential logging.

Software Engineer, Google Cloud, Supply Chain

Seattle, WA · Apr 2021 - Jul 2024

- Sole designer of the real-time sourcing engine behind Google's internal hardware-logistics platform (Java/Kotlin). It continuously re-plans up to ~10K concurrent orders through hourly reconciliation across tax codes, freight cost, and regulatory constraints. Concept to production in six months.

Software Engineer, Google, Ads Integrity

Vancouver, BC · Jun 2020 - Apr 2021

- Built dynamic rule distribution for ads-abuse enforcement (Java): abuse-signal matchers propagate to serving systems in seconds, without restarts. That cut time-to-enforcement from hours to seconds and permanently removed ~14 engineer-hours/week of release toil.

SDE II, Amazon, S3 / Retail

Vancouver, BC · May 2019 - Jun 2020

- Planned and executed S3's production DNS migration from a legacy stack to native Route 53 across every zone. Any failed cutover would have meant zone-wide S3 (and dependent AWS) unavailability. Completed with zero customer-facing incidents.

Earlier Experience

- **2011-2019:** Senior/Lead SWE at Connected and TWG (Toronto: IoT microservices at 300+ devices/sec; high-throughput AWS messaging; Java/Spring Boot/Kubernetes; TDD training), then Stefanini/Dell/ISul (Brazil: led a 4-engineer team; global schematics-sync pipeline; credit-bureau integrations).

>SELECTED PROJECTS

Claudio, self-hosted multi-agent orchestration platform (*Kotlin/Spring Boot, Go; agent-assisted; private*).

Spawns and supervises fleets of concurrent Claude Code agents: a REST + WebSocket control plane, full lifecycle, persisted inter-agent state, and git-worktree isolation; a 41-tool MCP server plus an SSE-to-stdio transport migration; supporting Go microservices (service registry, JWT vault, tracker, KB) on self-hosted GitLab CI.

TeslaHitch + **teslahacs** (*public; Kotlin, Python*). Self-hosted Tesla Fleet API proxy paired with a Home Assistant integration for vehicle control from home automation.

>EDUCATION

B.S. Computer Science, PUCRS, Brazil · 2014 (completed while working full-time)

Spoken languages: English, French, Portuguese, Japanese