

SKILLS

AI / Agents

Claude & OpenAI APIs, MCP, agent orchestration, cost-tiered model routing, RAG & hybrid retrieval (pgvector), LLM OCR, evals & regression gates

Languages

Python, TypeScript/JavaScript, SQL, Java, Scala

Product

Next.js, React, FastAPI, Node.js, Tailwind, Playwright, Better-Auth SSO

Data & Infra

BigQuery, Beam/Dataflow, Kafka, Snowflake, Airflow, DBT, PostgreSQL (RLS, pgvector), GCP, AWS, Terraform, Docker, Kubernetes, GitHub Actions

EDUCATION

B.S. CSE + Entrepreneurship

The Ohio State University
Dean's List (top 10%)

CONTACT

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Sankalp Sharma

AI Agent Systems · Data Platforms · Full-Stack Product

Founded Paperwork Labs and single-handedly shipped a multi-product fintech/AI platform, built and operated by an LLM agent fleet of my own design. Before that, a decade-plus on data platforms: at Cruise, commercial and financial data warehouses, then Medallion, one source of truth spanning road and driving data, operations, marketing, legal, and realtime services for 300+ data scientists and analysts; at Credit Karma, recommendations serving 120M+ members. Strongest on ambiguous zero-to-one problems: scope with stakeholders, ship to production, run what I ship.

EXPERIENCE

Founder — Paperwork Labs

Feb 2026 – Present

Founded and run a fintech/AI platform: 7+ production apps, 3,500+ merged PRs, 1,500+ in the last month; every line authored and shipped by an in-house AI agent fleet.

- Designed Brain, the platform's agent-orchestration runtime: a persona-routed tool loop with 18 typed contracts, 50+ MCP tools, episodic memory, 100+ scheduled workflows.
- Engineered two-layer LLM routing: XS–XL capability tiers composed with billing lanes, fail-closed dispatch, loud fallback; ~90% of work on the cheapest tiers.
- Shipped AxiomFolio: five brokerage integrations, backtesting (Optuna, lookahead-leak guards) verified to 1e-9 against an independent oracle, hard pre-trade risk gates.
- Shipped FileFree: photographed W-2 → completed 1040 at a fraction of commercial parsing cost; SSNs parsed locally; IRS e-file authorization in progress.
- Run a one-person company on an autonomous delivery loop: agent PRs flow through AI review, a merge queue, and an auto-revert watchdog; 56 CI workflows, JWKS-verified SSO, RLS multi-tenancy.

Sr Data Engineer II — Cruise

Aug 2021 – Feb 2026

- Spearheaded Medallion, the architecture that became the single source of truth for Cruise's self-driving commercial fleet: inconsistencies down 80% for 600+ users; team scaled 2 → 15.
- Architected the Commercial Data Warehouse for 300+ data scientists and analysts, directly supporting the company's top-line metrics; all as code: Terraform and dbt.
- Established governance intercepting 95% of anomalies pre-production; PII-protected ride-hail pipeline; self-service analytics returning 290+ engineer-hours monthly.

Sr Data Engineer — Credit Karma

Mar 2019 – Aug 2021

- Owned email recommendations for 120M+ members (\$20M+ incremental monthly revenue); built Credit Karma's first streaming pipeline.
- Launched GDPR-compliant UK pipelines (20M+ members); cut simulation runtime from 2 hours to under 20 minutes.

Sr Full Stack Engineer — Lithium (2017–19) · LIA platform: 500+ communities, 800M members; monolith → SSR microservices, halving startup time.

Sr Software Engineer — Alpha Technologies (2014–17) · AlphaXD, behind 80%+ of broadband providers; load times 2 minutes → 5 seconds, doubling revenue.

Co-Founder — Solstice Limited (2010–14)