Anish Kr Singh

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Experience

Chert (Y Combinator P26) Oct 2026 – Present
Infrastructure Engineer, FaceTime & iMessage lines for AI agents *Remote*

- Replaced the physical FaceTime audio loopback with a **software audio route** in 3 days: flat 100 Hz–10 kHz response vs. an **18.7 dB loss** above 1.2 kHz on the hardware rig, ∼15 ms lower delay, no headphone rig per Mac.
- **110 pull requests merged in under 4 weeks** across the Swift call worker, the Next.js/Supabase control plane, the iMessage server and the CLI.
- Built **Chert MAU**, the fleet monitor and updater: a root daemon, menu bar app and admin panel with Slack alerts, one-click healing of stuck lines, and signed releases that update a Mac **without dropping a live call**.
- Shipped the **chert CLI** (npm): one command puts a LiveKit voice or video agent on a FaceTime line, with browser sign-in and shared-line time slots for the Chert hackathon.
- Brought iMessage sending back on **macOS 26**: new chat routing and a capability router tested across 532 cases.

FableRoom / Trampoline (backed by Z47 and WaterBridge Ventures) Feb 2026 – Nov 2026
SDE 2, Backend & Applied AI *Remote*

- **Sole backend engineer** for a D2C home decor brand and its B2B arm on one Django 5 platform: **1,400+ commits** across 15+ production systems.
- Built **Maestro**, the company's operator agent in Slack and on the web: answers questions across Postgres, live Shopify, Mintsoft and Odoo, reads Slack channels, charts, and plans and creates backorders; reads open to all, **every write behind a one-time Approve gate**; multi-model harness (Claude, Gemini, DeepSeek, GLM, Sarvam).
- Put every agent behind a **read-only SQL firewall**; cut latency with **34% smaller prompts** and up to 4 parallel reads per turn.
- Automated stock and orders across **Mintsoft (3PL), Shopify and Odoo**: container stock sync, allocation, automatic backorders and carrier tracking; moved every credential to env-only config across **AWS ECS**.

Velofy (velofy.co) Apr 2025 – Present
Co-Founder, applied AI and security lab *Delhi, India*

- **glep** (Rust): indexed grep for coding agents, **17–52x faster than ripgrep** on rare-pattern searches of the 86k-file Linux kernel, with ripgrep-compatible output.
- **curl_reap** (Python): its own TLS 1.3 stack with a post-quantum ML-KEM-768 key share that sends **Chrome's exact handshake byte for byte**; up to **1.8x** the throughput of a C-accelerated rival.
- **Trove** (repo index and memory for Claude Code), **Querion** (read-only NL data analyst), **terbium** (PDF/XLSX parser that calls a model only when unsure).
- Client backends for firms in Turkey and India: **30% lower query latency** via indexing, Redis caching and sessions.

Fyle (Tiger Global-backed, acquired by Sage in 2025) Oct 2022 – Mar 2025
Member of Technical Staff 2, Integrations *Bengaluru, India*

- Built the integrations that post Fyle expenses into **Sage Intacct, Sage 300 CRE, QuickBooks and Xero** as journal entries: the Django REST backend plus the mapping screens finance admins use.
- Sped up integration APIs with ORM tuning (select_related, prefetch_related) and PostgreSQL indexes; moved approvals and notifications to **Celery**; OAuth flows and pytest coverage.

Skills

Languages: Python, TypeScript, Swift, Rust, SQL
AI: Claude API and Claude Code, agent design, tool use, MCP, NL-to-SQL, evals and guardrails, LiveKit
Backend & Infra: Django, DRF, FastAPI, Celery, Next.js, Supabase, PostgreSQL, Redis, AWS ECS, Docker, GitHub Actions
Systems: macOS (CoreAudio, launchd, ScreenCaptureKit), TLS 1.3, HTTP/2, Shopify, Odoo, Sage, QuickBooks, Xero

Education

Dr. APJ Abdul Kalam Technical University
Bachelor of Technology in Computer Science