

Vasanth K

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SUMMARY

Full-stack engineer and two-time founder. Most recently I built an AI document-extraction and GST product on my own in 20 weeks: Elixir/Phoenix, React, vision models, evaluation harnesses, and a C#/.NET integration with Tally. IIT Delhi.

EXPERIENCE

Founder & Engineer — Nila

May 2026 – Oct 2026

AI accountant for Indian CA firms. Built solo; paused in Oct 2026 before its first trial ran. [Case study ↗](#)

- Built the whole stack myself: Phoenix/Elixir, PostgreSQL, Oban jobs, a React/shadcn front end and CI deploys. 732 commits in 20 weeks, working heavily with coding agents.
- Designed the extraction pipeline: low-resolution page discovery splits multi-invoice PDFs into documents, each invoice goes through a vision model under a strict JSON schema, then deterministic GSTIN, tax and arithmetic checks.
- Tested changes before trusting them. A 75-request A/B rejected a cleaner tax schema that cut faithful printed summaries from 18/25 to 10/25, and a labelled replay of 200 claims got a verifier removed after it caught 1 of 17 semantic errors.
- Wrote a C#/.NET Windows connector that posts reviewed invoices into Tally. It looks for an existing voucher before writing and reads it back afterwards, so a lost reply can't book a sale twice.

Founder — Kaguya (kaguya.io)

Apr 2024 – Present

Social tracking and discovery for visual novel readers. 4,200+ sign-ups and about 250 monthly actives, all organic. [Case study ↗](#)

- Wrote much of the early backend: the data model and Absinthe GraphQL API, Goodreads and StoryGraph importers, and Oban catalogue-import jobs.
- Fixed production issues: a Next.js full-page re-skeleton from overlapping RSC and Apollo queries, and a memory leak with roughly 6-hour crash cycles, found through Grafana heap snapshots.
- Moved hosting from Fly.io to self-managed Hetzner (Docker Compose, Caddy, Cloudflare) at €10 a month, with monitoring and a public status page.
- Moved the web app from Next.js to Phoenix LiveView with my developer in about a week and a half, using coding agents.

Quantitative Developer Intern — QI-CAP

Nov 2023 – Feb 2024

Market data infrastructure at a quantitative trading firm.

- Owned the AWS Batch pipeline that turned 500 GB of daily NSE/BSE tick data (stocks, indexes, F&O) into 1-minute and 5-second bins.
- Debugged the C++ binary data generator with GDB and checked its output with Python.

SKILLS

Languages	Elixir, TypeScript, Python, SQL, C#, C++
Stack	Phoenix, LiveView, Absinthe (GraphQL), Oban, PostgreSQL, React, shadcn/ui, Next.js
AI	Vision-LLM document extraction, structured outputs, evaluation harnesses, coding agents
Infra	Docker, Caddy, Hetzner, Cloudflare, AWS, Grafana

EDUCATION

B.Tech in Mechanical Engineering, Indian Institute of Technology Delhi

Aug 2018 – Jun 2023

AIR 875 in JEE Advanced 2018 (top 0.4% of about 200,000 candidates). KVPY and NTSE national scholar.

Writing: [The right number can still be the wrong answer](#) — what building Nila taught me about document AI and verification.