

Aniket Singh

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Backend and platform engineer specializing in Elixir/Phoenix, cloud infrastructure, and HIPAA/PCI-regulated data systems. Experience building multi-tenant SaaS platforms, workflow engines, and payment integrations at early-stage startups.

EXPERIENCE

Founding Engineer

Mar 2025 – Present

Alvera AI — Data integration, payments & workflow automation

Remote (SF-based)

- Architect and operate a multi-tenant Elixir/Phoenix platform serving healthcare, finance, and payments verticals — primary platform engineer owning core architecture decisions and 20+ production releases
- Implement per-tenant data isolation using dynamic Ecto repos with tokenized PII and HIPAA/PCI-aligned data handling
- Design production AWS infrastructure in Terraform — ECS, Aurora Serverless v2, Lambda, and cross-account STS AssumeRole for multi-tenant cloud operations
- Build data activation pipeline with polymorphic dispatch (Lambda, REST, S3, SQL), idempotent SNS delivery, and contract-driven integration tests
- Built agent-native observability platform — telemetry synced from Cloudflare R2 into structured, DuckDB-queryable traces and proactive Oban job monitoring, cutting debugging and triage from a full day to minutes

Software Developer

Oct 2023 – Feb 2025

Hamilton Practice — Contactless front-office SaaS for healthcare clinics

Remote (SF-based)

- Primary contributor to the core Elixir/Phoenix platform spanning patient management, scheduling, clinical forms, payments, and multi-tenant practice websites
- Built the entire patient forms subsystem — embedded Ecto schemas for nested medical data, draft/submit workflows, signature capture, and on-demand PDF generation — digitizing patient intake and history end-to-end
- Integrated Stripe and Elavon payment processing with automated copay collection into patient billing — reducing manual front-office payment work
- Created a visual workflow builder for configurable notification pipelines with decision nodes and Liquid templating
- Implemented FHIR-aligned data models and Athena EHR integration for standards-compliant patient records

PROJECTS

Ingress | Elixir, Phoenix LiveView, Oban, PostgreSQL

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- AI-powered research and communication platform — IMAP email sync, RSS/Atom feed ingestion, cron-based automations, and circuit breakers at service boundaries
- Stateless agentic tool-use loop with DB-backed state, pluggable Provider behaviour + ToolRegistry, and full run traceability via structured step logging

Claude Session Explorer | TypeScript, tsup, Biome

github.com/AugurCognito/claude-session-explorer

- CLI tool for structured access to Claude Code session history — search, token tracking, file operations, and Markdown/JSON export

Open-Source Contributions | Go, Rust

- Moov Watchman (Go, sanctions screening) — diagnosed a ticker lifecycle bug that silently disabled the periodic sanctions data refresh
- otlp2parquet (Rust, OpenTelemetry-to-Parquet) — fixed missing TLS in release binaries upstream; built batch merging and severity-based Hive partitioning for log ingestion

SKILLS

Languages: Elixir, TypeScript, Python, SQL, Go, Rust

Backend: Phoenix, Ecto, Oban (Pro), GenServer/OTP, OpenAPI

Infrastructure: AWS (ECS, Lambda, Aurora, S3, SNS, CloudFormation, IAM/STS), Terraform, Docker, Fly.io

Data & APIs: PostgreSQL, FHIR/HL7, PostgREST, Cloudflare R2, OpenTelemetry, DuckDB

Frontend: Phoenix LiveView, Tailwind CSS, AlpineJS

Tools: Git, GitHub Actions, Playwright, WireMock, Credo, Dialyzer

EDUCATION

B.E. in Electronics and Telecommunication Engineering

Army Institute of Technology

2020 – 2024

Pune, India