

Nayab Rehmat

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SUMMARY

Software engineer with 3 years building AI and integration systems inside a HIPAA-regulated clinical environment, including the reliability layer between patient-facing services and a decades-old EHR with undocumented behavior and no ability to change the upstream system. Shipped an autonomous agent that triaged production errors into human-reviewed PRs, owned backend services for 50,000+ monthly active patients across a 110+ clinic network, and carried on-call where downtime halted clinic operations.

EXPERIENCE

Inception Fertility LLC

Software Engineer

Austin, TX

May 2023 – Apr 2026

- Built an autonomous error-remediation agent (TypeScript) into the production mobile app pipeline: nightly Sentry API queries filtered by error volume, an LLM extraction pass with retry-on-validation-failure producing structured context, handed to a coding agent that opened one scoped PR per fix. Every PR gated on human review; 5 merged to production.
- Owned the integration and reliability layer between patient-facing services and eIVF, a decades-old EHR with undocumented behavior and no ability to change the upstream system. Reverse-engineered its semantics from observed behavior and designed around its failure modes so patient-facing services degraded gracefully when the EHR didn't respond as documented.
- Led migration of the legacy patient-facing app to React Native across a 110+ clinic network with zero downtime, scoping directly with clinical staff and non-technical stakeholders. Ran the feature-parity assessment mapping 8 major feature categories into a sequenced roadmap and drove decisions on what shipped when. End-user satisfaction rose 2.7 → 4.1.
- Directed a three-engineer build and owned delivery infrastructure end to end (CI/CD, EAS build and release pipeline, App Store submission, observability via Datadog and Sentry) on a backing architecture I designed around Supabase-backed services and Node.js API gateways into AWS ECS.
- Owned backend services and REST APIs (Python, AWS Lambda, DynamoDB, Cognito) serving 50,000+ monthly active patients across a 110+ clinic network.
- Carried production on-call in a live medical environment where downtime halted clinic operations; diagnosed and resolved multiple production incidents under time pressure while maintaining uptime targets.

ChampionX

Software Engineering Intern

Houston, TX

May 2022 – Aug 2022

- Built a full-stack asset provisioning tool (React, TypeScript, Node.js) for oilfield operations, implementing real-time data streaming and REST APIs to surface live equipment status across distributed sites.

Texas A&M College of Engineering

Teaching Assistant

College Station, TX

Aug 2020 – May 2022

- Supported Python instruction for 96 engineering students; led weekly debugging sessions diagnosing student code in real time.

PROJECTS

GridScope | 3rd Place, Candid Intelligence Texas Grid Hackathon

Aug 2026

- Led the backend for a full-stack grid-intelligence platform (FastAPI, Supabase/Postgres, MapLibre), fusing three government data sources (ERCOT queue, TCEQ permits, PUCT dockets) into one de-duplicated, geolocated view of 1,100+ projects across ~12.7k historical snapshots.
- Built a coordinate-free entity resolution system with token-set Jaccard matching on name + county, tiered into resolved/review/unresolved, plus two-tier geolocation (Census county centroids to EPA FRS exact coordinates) so every project got a map pin.
- Owned the ingestion pipeline end to end: parsing multi-sheet ERCOT .xlsx reports, a TCEQ Socrata API, and PUCT docket filings into normalized, snapshotted Postgres tables.

CRTX | cctx.chat

Jun 2026

- Built a full-stack RAG system (FastAPI, Next.js, LangChain) over ingested PDFs and URLs, with OpenAI embeddings and a Pinecone vector store; implemented chunking strategy, deterministic deduplication, and async Redis job tracking for the ingest pipeline.
- Designed multi-tenant architecture with Supabase Auth, JWT-gated API routes, and share-link access controls separating ingest-level from query-level permissions.
- Piloted with a loan officer to map a real document review workflow; shipped feature changes off direct user feedback.

TECHNICAL SKILLS

AI/ML Systems: LLM APIs (Claude, OpenAI, Gemini), RAG pipelines, agentic frameworks, multi-agent orchestration, MCP integrations, LangChain, LlamaIndex, prompt engineering, LLM evaluation

Languages: Python, TypeScript, JavaScript, SQL, C/C++

Backend & Distributed: FastAPI, Node.js, REST, GraphQL, AWS Lambda, microservices, webhooks, event-driven architecture

Data & Storage: PostgreSQL (Supabase), DynamoDB, Pinecone (vector), FHIR, HL7v2, HIPAA, Redis, ETL pipelines, real-time streaming, schema design

Cloud & DevOps: AWS (Lambda, S3, DynamoDB, Cognito, ECS, EC2, RDS), Docker, GitHub Actions, CI/CD, Git

Observability: Datadog, PostHog, Sentry, logging pipelines

Security: OAuth, JWT, SSO, multi-tenant access controls, HIPAA-compliant systems

Frontend: React, React Native, Vue.js, Next.js, Redux, Tailwind CSS

Development: Claude Code, Cursor, Codex, Windsurf

EDUCATION

Texas A&M University, B.S. in Computer Science and Engineering

College Station, TX