

# Nikhil Singh

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## SUMMARY

Senior **full stack** software engineer with seven years delivering healthcare and data intensive applications from architecture through production iteration. Builds accessible React interfaces with components, hooks, **state management**, performance profiling, Storybook, design systems, and WCAG informed interaction patterns. Develops Python services with FastAPI, RESTful APIs, **asynchronous workflows**, background jobs, retries, idempotency, and **eventual consistency**. Designs Postgres and DynamoDB models around access patterns, then operates AWS workloads with Docker, Terraform, Git, and CI. Partners with product owners, clinicians, UX researchers, AI and machine learning specialists, and engineers through Agile delivery. Applies unit, integration, end to end, visual regression, and continuous integration testing. Additional strengths include FHIR data, React Native, durable workflows, streaming, tool calling, and evaluation driven LLM applications.

## EXPERIENCE

### Senior Full Stack Software Engineer

January 2024 - Present

Harborline Digital Health

*Austin, TX*

Leads healthcare product delivery across React interfaces, Python FastAPI services, AWS infrastructure, and production iteration. Guides architecture, **technical specifications**, asynchronous workflows, testing strategy, and collaboration with clinicians, product leaders, UX researchers, and AI and machine learning engineers.

- Led **React** and FastAPI **patient workflows** from technical design through production iteration.
- Standardized RESTful API conventions across independently deployed healthcare application domains.
- Guided **background jobs** with retries, **idempotency**, and eventual consistency for safer transactions.
- Expanded integration, end to end, and visual regression coverage through CI release gates.
- Built Storybook **components** with WCAG informed keyboard and screen reader behavior.
- Translated clinician and AI research needs into specifications, estimates, and documented tradeoffs.

### Full Stack Software Engineer

May 2022 - December 2023

Clearpath Care Software

*Dallas, TX*

Delivered care coordination features across React, **Python**, FastAPI, **Postgres**, DynamoDB, Docker, Terraform, and AWS. Connected clinical data exchange, automated testing, API documentation, and deployment practices with product and engineering delivery needs.

- Delivered care coordination features with React **state management** and **FastAPI** endpoints.
- Modeled Postgres transactions and **DynamoDB access patterns** for clinical event workloads.
- Containerized services with Docker and maintained Terraform modules for AWS environments.
- Implemented FHIR exchanges for patient and encounter information with domain validation.
- Connected unit, integration, and end to end suites with CI quality gates.
- Documented API contracts, failure modes, and deployment considerations for coordinated releases.

### Software Engineer, Full Stack

July 2020 - April 2022

Cedar Bridge Applications

*San Antonio, TX*

Built cloud healthcare platform features across React, Python REST services, asynchronous jobs, AWS, Docker, Storybook, and CI. Worked with product and design partners to shape testable increments, reusable interface patterns, and dependable release practices.

- Built React features with **hooks**, reusable components, and **performance** profiling.
- Developed Python REST services with retry and idempotency controls for **background jobs**.
- Created **Storybook** examples for forms, navigation, validation states, and shared interactions.
- Wrote unit and integration tests around API and interface changes.
- Supported **AWS** environments and **Docker** development while diagnosing deployment issues.
- Refined Agile requirements with product and design partners into testable increments.

### Junior Software Engineer

June 2019 - June 2020

Lone Star Software Labs

*Round Rock, TX*

Implemented supervised frontend and backend enhancements with React, Python, **RESTful services**, **relational databases**, Docker, AWS, Git, and CI practices. Investigated defects, documented findings, and contributed test evidence across Agile delivery cycles.

- Implemented scoped React and Python enhancements under senior engineering guidance.
- Created reusable **React components** from approved UX specifications and unit tests.
- Added Python API endpoints using established error handling and database conventions.
- Investigated defects through logs, **Git** history, and reproducible scenarios.
- Maintained Docker configurations and supported supervised AWS deployment changes.
- Contributed technical notes and test evidence during **Agile** delivery reviews.

PROJECTS

FHIR Clinical Exchange 📅 2023

Created a clinical data exchange workflow using FHIR mappings, Python services, relational records, and integration testing. Domain review improved confidence in patient and encounter information.

Accessible Component Library 📅 2022

Built reusable React and Storybook patterns for forms, navigation, validation, keyboard behavior, and screen readers. The library gave healthcare interfaces a shared foundation.

Durable Workflow Services 📅 2024

Applied background jobs, retries, idempotency, and eventual consistency to asynchronous healthcare transactions. Failure handling became easier to test and safer to operate.

LEADERSHIP & AWARDS

- Recognized by engineering peers for practical architecture guidance across healthcare application delivery.
- Selected to guide shared React components, Storybook patterns, and accessible interface practices.
- Trusted by product, clinical, UX, and AI research partners to clarify technical tradeoffs.

EDUCATION

Bachelor's Degree in Computer Science

2019

Texas State University GPA: 0

San Marcos, TX

*Coursework: Software engineering, database systems, web application development, distributed systems*

CERTIFICATIONS

- AWS Certified Developer - Associate 📅 2023
- FHIR Healthcare Data Certification 📅 2024

TECHNICAL SKILLS

- **Frontend Development:** React, React Native, Expo
- **React Engineering:** Components, Hooks, State Management
- **Python Backend:** Python, FastAPI, Starlette
- **API Development:** RESTful APIs, API Design, Streaming
- **Database Systems:** Postgres, DynamoDB, NoSQL
- **Cloud Infrastructure:** AWS, Docker, Terraform
- **Testing Practices:** Unit Testing, Integration Testing, End to End Testing
- **Regression Testing:** Visual Regression, Snapshot Testing, Storybook
- **Workflow Systems:** Background Jobs, Retries, Idempotency
- **Healthcare Data:** FHIR, CDA, CCD
- **Accessibility:** WCAG, Screen Readers, Design Systems
- **AI Applications:** AI and Machine Learning, LLM Applications, Tool Calling
- **Delivery Practices:** Git, CI, Agile
- **Durable Execution:** Temporal, Eventual Consistency, Asynchronous Workflows
- **Frontend Architecture:** Component Libraries, Performance, Cross Platform Mobile

SKILLS

- |                |            |                |                       |
|----------------|------------|----------------|-----------------------|
| • React        | • Postgres | • Terraform    | • Integration testing |
| • Python       | • DynamoDB | • Git          | • Visual regression   |
| • FastAPI      | • AWS      | • CI           | • Agile               |
| • RESTful APIs | • Docker   | • Unit testing |                       |

PROFESSIONAL AFFILIATIONS

- Healthcare technology engineering community participant, focused on clinical application delivery and interoperability.
- Accessible web engineering contributor, with interest in WCAG, keyboard behavior, and screen readers.

LANGUAGES

- English (Native)
- Hindi (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST