

NIKHIL G

Solution Architect | Full-Stack Engineer | AI / LLM Solutions

CONTACT

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SKILLS

Languages

JavaScript / TypeScript, C#, Python

Frontend

HTML, CSS, React, Next.js, Angular, React Native, Tailwind CSS, Material UI, Storybook

Backend

NestJS, Node.js, Fastify, Express, Koa, hapi.js, .NET / .NET Core, Python FastAPI, NATS

Cloud & DevOps

AWS (Fargate, ECS, Lambda, S3, RDS, Amplify, AppSync, Cognito, CloudFront, EventBridge, EFS, ELB), Azure, Docker, Terraform, GitHub Actions CI/CD

Databases

MongoDB / Atlas, MS SQL Server, PostgreSQL, MySQL, DynamoDB

Testing & Build

Jest, Cypress, Karma, Jasmine, Sinon, Puppeteer, Enzyme; gulp, Babel, WebPack

AI / ML

LLMs (OpenAI, Claude, open-source), RAG pipelines, prompt engineering, vector search, agentic workflows; Ollama, DIFY

Agile & BA

User stories (G/W/T), UAT triage, RAID / MoM, estimation, TDD / BDD; Jira / Kanban, Figma, draw.io, Lucidchart

AWARDS & CERTIFICATIONS

Best Employee — 2015 & 2016
Microsoft Certified: 70-480 (HTML5, JavaScript, CSS3)
Secured a reference customer with the company's highest customer-satisfaction rating

LANGUAGES

English, Hindi, Telugu

PROFILE

Solution Architect with 12+ years designing and scaling full-stack web and mobile platforms on AWS (serving 1M+ users), from Software Engineer to Architect. Leads cross-functional agile delivery end to end and ships production LLM/AI capabilities.

CAREER HIGHLIGHTS

- Architected cloud-native platforms for 1M+ users on AWS, sustaining ~95% uptime and scaling to ~5x peak traffic.
- Cut new-project setup time by ~80% with reusable accelerators and a themed component library (4+ themes, 15+ apps).
- Led ~50+ person cross-functional teams (Web Dev CoE, Open Source, Solution Engineering); reduced deployment time by ~70% via CI/CD and Terraform IaC.
- Shipped production AI/LLM features (RAG, vector search, agentic workflows) that improved Manual efforts by ~90%.

Domains: HCM/Workforce/VMS, Banking/Fintech, EdTech, Insurance, Identity & IAM, Health-tech, Logistics.

EXPERIENCE

PalTech — Hyderabad, IN Mar 2021 – Present

Architect | Apr 2026 – Present

Associate Architect | Apr 2024 – Mar 2026

Sr. Principal Software Engineer | Apr 2022 – Mar 2024

Principal Software Engineer | Mar 2021 – Mar 2022

- Architected scalable, multi-tenant platforms for 1M+ users on AWS with MongoDB Atlas sharding and global writes for performance and data compliance.
- Led Web Development CoE, Open Source, and Solution Engineering teams and set engineering standards (ESLint, Prettier, TypeScript, Husky pre-hooks, Jest/Cypress) across the app ecosystem.
- Built reusable accelerators and a themed component library (4+ themes, 15+ apps) to cut setup time by ~80% and reduce human error.
- Delivered AI-powered features with LLMs (OpenAI, Claude, open-source) — RAG, prompt engineering, vector search, agentic workflows — and drove agile delivery as architect/BA (user stories, UAT triage, RAID artifacts).

ACS Technologies (GGK Tech) — Hyderabad, IN Jun 2014 – Mar 2021

Senior Software Engineer | Jun 2018 – Mar 2021

Software Engineer | Jun 2014 – Mar 2018

- Modernized legacy business and HRMS portals, optimizing and automating resource usage by ~70% across enterprise applications.
- Built core business apps (HRMS, ticketing, timesheets, project management, invoicing) with Angular, React/Next.js, Node.js, and .NET Core; implemented centralized SSO (LDAP / Outlook / Google via OIDC) and Docker-based, multi-environment deployments.

EDUCATION

University of Hyderabad — PG Diploma, Business Management

Distinction, 92.6% | Apr 2019 – Apr 2021

VNIT, Nagpur — B.Tech, Computer Science (CSE)

6.95 CGPA | Jun 2010 – Apr 2014

Narayana Junior College — Class XII (HSC, MPC)

Distinction, 91.3% | Jun 2008 – Apr 2010

Jawahar Navodaya Vidyalaya — Class X (CBSE)

Distinction, 91.4% | [2006 – 2008]

SELECTED PROJECTS

Multi-Tenant Enterprise SaaS Platform — 1M+ Users — *Next.js/React · NestJS (Fastify) · AWS · Terraform · MongoDB Atlas · NATS · Storybook*

Domain: Workforce & Vendor Management (Enterprise SaaS) | **Duration:** 3+ Years (ongoing)

- Architected the scalable, multi-tenant architecture (Fargate, ECS, ELB, Lambda, S3, CloudFront, EventBridge, EFS) with MongoDB Atlas sharding and global writes; sustained ~95% uptime for 1M+ users.
- Designed modular infrastructure-as-code in Terraform (VPC/networking, IAM roles & policies, ECS Fargate with Service Connect) using reusable for_each patterns and externalized policy definitions.
- Developed backend services for CDN assets, webhooks, shared APIs, and pub/sub messaging over NATS; hardened performance and security (NestJS Fastify adapter, cookie auth, encryption, rate limiting, telemetry).
- Built serverless file upload with malware scanning (ClamAV) and real-time SSE notifications; integrated SendGrid, Twilio, and Cloudflare; configured GitHub Actions CI/CD across environments.
- Built a custom component library with Storybook (4 themes) and delivered platform modules — dashboard builder, workflow/AI features, calendar & policy management, SSO/SAML, ERP export — running agile delivery (Given/When/Then stories, UAT triage, RAID) and using LLM tooling (Claude) to accelerate BA and engineering deliverables.

Banking Platform (IaaS) — *.NET / .NET Core · WinForms · MSSQL · API Gateway · Docker*

Domain: Banking / Fintech (Payments) | **Duration:** 3 Years

- Built and integrated APIs and applications for a banking IaaS offering, including an ISO 8583 client/parser (encode/decode) for financial messaging via API Gateway.
- Implemented transaction flows with audit logging, idempotent retries, and a Redis cache with fallback for resilience in lower environments.
- Containerized services with Docker behind an API Gateway for routing, throttling, and versioning, using single-image, multi-environment placeholder transformations.
- Upgraded the build and deployment CI/CD from .NET Core 3.1 to .NET 6 (later 8), modernizing the runtime across the platform.

3PL Transportation Platform — Swing → Web Migration & Shipment Execution — *Angular (TypeScript) · Material UI · Java*

Domain: 3PL — Third-Party Logistics (Transportation Management) | **Duration:** 4 Years

- Spent ~4 years migrating a large JNLP/Swing desktop client to a modern Angular (TypeScript) web application for a third-party logistics (3PL) / transportation-management platform.
- Owned the Shipment Execution module — the platform's largest — delivering the end-to-end shipment lifecycle: load tendering, carrier assignment and dispatch, in-transit tracking, and status/exception handling.
- Modeled shipment, load, carrier, and stop entities and built planning and execution screens, including multi-stop shipments and appointment scheduling.
- Built and maintained a design-system component library with multiple themes, reused across 15+ enterprise web apps to keep the migrated modules consistent.
- Partnered with business analysts on requirements and acceptance criteria for the shipment-execution workflow, following TDD/BDD with Jira/Kanban; ran the migration incrementally so legacy Swing screens and the new Angular app ran side by side without disrupting operations.

Enterprise App Ecosystem with Centralized SSO — *Next.js/React · NestJS · MongoDB · AWS*

Domain: Enterprise IT / Identity & Access | **Duration:** 1.5 Years

- Built a shared SSO application (node-oidc; LDAP / Outlook / Google) and integrated centralized single-sign-on across multiple ecosystem apps, eliminating duplicate login flows.
- Implemented session management, silent token refresh, and shared role-based access (RBAC) so every app consumed a single identity and authorization layer.
- Created ticketing, timesheets, and invoicing apps as Next.js full-stack services, plus boilerplate accelerators for React, Next.js, and React Native that cut new-app bootstrap to minutes.

Standardized engineering setup across the ecosystem with ESLint, Prettier, TypeScript, Husky pre-hooks, and Cypress tests, and shared header/sidebar/menu components.

React Native Mobile App — *React Native / Next.js · AWS Amplify, AppSync, Lambda, RDS, S3, Cognito*

Domain: Health & Wellness | **Duration:** 1 Year

- Built configuration-driven screens with dynamic field rendering, an app-invite flow with share, deep links, and universal links, and Apple Health & Google Fit integrations.
- Modeled GraphQL APIs on AWS AppSync with Cognito auth, and delivered end-to-end user journeys via Amplify resolvers and Lambda functions.
- Implemented dynamic release-notes screens and feature flags for staged rollouts, plus push notifications, offline-friendly data sync, and CI/CD store-delivery pipelines for iOS and Android.

ADDITIONAL PROJECTS

Business Apps Modernization & HRMS — *React/Next.js · Angular · Node.js / Koa · .NET Core · MS SQL*

Domain: HR-Tech / Enterprise

- Modernized legacy business portals and automated/optimized resource usage.
- Built a core HRMS (Angular + .NET Core Web API) plus task-manager, project-management, and invoicing apps (Next.js), and a service-hours invoicing tool; integrated common SSO across portals.

React → Next.js Migration with Python Backend — *Next.js/React · Python FastAPI · MongoDB · AWS*

Domain: Enterprise Web Platform

- Migrated an existing React app to Next.js, replacing Ant Design (antD) with Tailwind CSS and adding TypeScript; integrated in-house SSO (OIDC) on frontend and backend via react-oidc-context.
- Built shared components (header, sidebar, menu, cookie auth providers) and streamlined setup with ESLint, Prettier, TypeScript, pre-hooks, and Cypress.

Wallet & Core-Banking Integration — *React · Apache Camel · PostgreSQL · Docker*

Domain: Banking / Payments (Wallet)

- Built a React/TypeScript frontend to register/unregister wallet customers with a core banking system (push/pull, balance inquiry, mini-statement).
- Implemented user upserts in PostgreSQL and Docker placeholder transformations for multi-environment deployments.

Online Classroom Platform — *Angular · .NET Core · AWS (Lambda, EC2, S3, Amplify, DynamoDB)*

Domain: EdTech

- Built a scheduler service to automatically create, start, and stop EC2 servers via Lambda, optimizing resource usage.
- Developed the Angular frontend and .NET Core APIs and extended SSO with token auto-refresh across web apps.

Claims Reporting Tool — *React · Node.js / Express · MongoDB · Docker*

Domain: Insurance (Claims)

- Built a claims reporting app with React and a Node/Express API, including Mongoose schema design.
- Added a build-time test suite with coverage reporting and Docker setup for multiple deploy modules.

Node.js Error Monitoring & Alerting API — *AngularJS 1.6.4 · Node.js / hapi.js · SQL Server 2016 · gulp · karma · Sinon · Jasmine*

Domain: Developer Tools / Observability

- Built an API that ingests application errors, alerts on configurable thresholds, and surfaces them in a reporting UI; designed the DB layout and architecture diagrams.
- Delivered the full UI and API in ES6 with 95%+ unit-test coverage.

Drag-and-Drop Scheduler POC — *Angular 4*

Domain: Logistics / Manufacturing

- Built a calendar-grid scheduler with drag-and-drop of orders into loaders and tracks across date / time / month views for a filling operation.
- Implemented conflict detection and capacity rules so overlapping or over-allocated slots were prevented during scheduling.

OpenID Connect Integration — *Angular · ASP.NET Web API · C#*

Domain: Identity & Access (IAM)

- Implemented a token authorization server for a .NET Core 2.0 web app/API and integrated a MITREid OpenID Connect server with Angular and .NET Web API, wiring up authorization-code and refresh-token flows with scope/claim-based authorization.

Training Sessions Tracker (HRMS Module) — *React (Flux) · ASP.NET Web API · C# · SQL Server · ADO.NET*

Domain: HR-Tech / Learning & Development

- Built a multi-tenant HRMS module to manage organizational training sessions and integrated it with an existing Angular HRMS app.
- Gathered requirements, defined business rules, and produced effort estimates; implemented ES6 with Babel (transpiling) and WebPack (bundling), and designed the DB architecture and API workflow.

Multi-Source Data Migration & Translation — *.NET MVC · Azure (Cloud Services, Service Bus, BizTalk, PowerShell Runbooks) · Entity Framework*

Domain: Data Engineering / Cloud Migration

- Migrated and managed data from multiple sources into SQL Azure with legacy-system customizations, and built a single-page app to track migration status.
- Authored APIs for data translation/upload, created PowerShell Runbooks for cleanup and archival, and supported automated Azure deployments.