

NAHID BABU

Senior Full-Stack & Platform Engineer (.NET 10 | Python | Next.js)

Based in Geneva, Switzerland | Available Immediately

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Senior Full-Stack & Platform Engineer with 7+ years of experience architecting mission-critical healthcare compliance platforms and multi-industry SaaS systems. Single largest contributor (~30% of all commits; 940+ commits, 370+ Jira tickets) to WellSky's Electronic Visit Verification (EVV) compliance platform across 45+ US state-and-vendor combinations, and core engineer on its spec-driven .NET 10 successor (~68k LOC C#, ~2,000 xUnit v3 tests). Founder & Lead Architect of Dekhval ERP, a 37-module multi-tenant AI SaaS platform (Next.js 16, React 19, 5,028-line Prisma PostgreSQL schema). Based in Geneva, Switzerland.

KEY IMPACT AT A GLANCE

- **1,350+ Production Commits:** 940+ commits across WellSky EVV (738 backend, 136 Terraform IaC, 73 Next.js UI) + 417 commits across Dekhval SaaS.
- **Next-Gen .NET 10 Platform:** ~68k lines of C# across 8 production projects with ~2,000 xUnit v3 tests (unit, golden-file, and emulator-backed integration).
- **Multi-State Healthcare Scale:** ~147k lines of Python, all 14 vendor aggregator families across 25+ US states, 41 REST endpoints, and 3,557 pytest unit tests.
- **Cloud & SaaS Scale:** 5 GCP environments (dev/QA/stage/prod/DR), 60+ Firestore composite indexes, 37 ERP modules, and 28 documented production case studies.

TECHNICAL EXPERTISE

- **Languages:** Python (3.11-3.13), C# (.NET 10), TypeScript, JavaScript (ES6+), HCL (Terraform 1.9), SQL.
- **Backend & APIs:** ASP.NET Core Minimal APIs (OpenAPI/Scalar, OIDC), Flask + flask-restx, FastAPI, Pydantic, Next.js App Router & Server Actions, Prisma ORM, Roslyn Codegen & Architecture Rules.
- **Frontend & Web:** React 18/19, Next.js 16, Tailwind CSS v4, Ant Design 5, shadcn/ui, Radix UI, Apollo Client (GraphQL), Framer Motion, Recharts, MDX.
- **Cloud & DevOps (GCP):** Cloud Run, Firestore, Pub/Sub, Eventarc, Cloud Storage, BigQuery, API Gateway, Secret Manager, Cloud Scheduler, Memorystore Redis, Terraform, Docker, GitHub Actions, Azure DevOps, Coolify.
- **Testing & Integrations:** xUnit v3, pytest, Jest & React Testing Library, OpenTelemetry (OTLP), SFTP (Paramiko), SOAP (Zeep), Okta SSO, Stripe, Flagger, Claude & OpenAI APIs.

PROFESSIONAL EXPERIENCE

WellSky | Senior Software Engineer (EVV & Next-Gen Platform)

Jul 2023 - Present | Remote (US Health-Tech)

Single largest contributor (~30% of all commits) to the federally mandated Electronic Visit Verification platform and core engineer on its spec-driven .NET 10 successor.

- **EVV Next-Gen Platform (.NET 10):** Building the ~68k-line C# strangler-fig successor alongside the Python API. Authored a single typed payload contract that drives JSON validation, OpenAPI/Markdown docs, Roslyn C# codegen, and byte-deterministic payload emission.
- **Compiler-Enforced Boundaries & CLI:** Enforced zero platform-to-vendor coupling via assembly references and Roslyn architecture tests; built the self-updating cross-platform `evv` CLI distributed across 6 runtime identifiers (Windows/macOS/Linux, x64/arm64).
- **Multi-Vendor Compliance Engine:** Delivered features across all 14 vendor families in the ~147k-line Python backend (Sandata, HHAExchange, Tellus/Netsmart, CareBridge, AHCCCS, AuthentiCare, DCI, Therap, eMedNY, UEVV), including building DCI Oregon (~1,970 lines) end-to-end from scratch.
- **State Onboardings & Spec Rules:** Completed state onboardings for Sandata MA, AuthentiCare KS & NM, eMedNY NY, and Utah UEVV (SOAP batch cron); unified adjusted visit-time call omission across 11 Sandata/AHCCCS state modules (~1,500 lines) and CareBridge void claims across 6 states.
- **GCP Terraform Infrastructure:** Authored 136 Terraform commits across 5 environments (dev/QA/stage/prod/DR), managing 6 Cloud Run services, 20+ Cloud Scheduler crons, 60+ Firestore composite indexes, 35+ secrets, and dual API Gateways for zero-downtime maintenance switching.
- **Frontend & P0 Reliability:** Shipped Bulk Add Reason Code, Caregiver/Patient Requeue, Live-In views, and O(1) cursor-backed numbered pagination in the Next.js Transaction Manager; resolved a platform-wide P0 FastAPI audit-trail outage caused by an unpinned gRPC dependency.

Designed and built a 37-module multi-tenant SaaS ERP (~396 commits) and bilingual AI operations platform serving Healthcare, Pharmacy, Agriculture, Retail, and Services.

- **Multi-Tenant SaaS ERP:** Architected 37 modules on Next.js 16, React 19, TypeScript, and a 5,028-line Prisma PostgreSQL schema with strict organization-level data isolation and Stripe subscription billing.
- **Healthcare & FEFO Pharmacy POS:** Built clinical workflows (doctors, appointments, prescriptions, surgeries, medical camps, optical catalogs) and FEFO (First Expired, First Out) multi-batch inventory allocation (`sale\_item\_batches`) with full cancellation stock restoration.
- **AI Assistants & Social Gateway:** Integrated WhatsApp AI bots, natural-language ERP querying (Claude & OpenAI APIs) with human-in-the-loop approval workflows, and Postiz/Facebook Graph API scheduling with session-free webhook sync.
- **Self-Healing Production Deploys:** Engineered automatic Prisma P3009 failed-migration recovery in Docker entrypoints paired with idempotent PostgreSQL DDL migrations, exponential-backoff order concurrency retry, and stored XSS protections.

- **Priveo GDPR Platform:** Developed a European GDPR compliance management platform automating data subject requests, consent workflows, and privacy audits using Python, Django REST Framework, React, PostgreSQL, and Redis.
- **Real-Time Streaming:** Built asynchronous WebSocket architectures for real-time dynamic data processing and low-latency notifications in an agile European team environment.

- **Full-Stack Web Systems:** Built full-stack applications and RESTful APIs using Django REST Framework, React, PostgreSQL, MySQL, and Docker serving thousands of concurrent users.

SELECTED ENGINEERING CASE STUDIES (FROM 28 DOCUMENTED RESOLUTIONS)

- **P0 Audit Report Outage (gRPC Bisect):** Diagnosed platform-wide `\_UnaryStreamMultiCallable` failures on empty code diffs; bisected transitive gRPC/Firestore SDK versions and pinned compatible bounds to restore federal audit trails.
- **Silent Pagination Cursor Drift & O(1) Cost Pivot:** Fixed silent record skipping under date filters by dynamically binding cursor fields to active sort orders, and paired `nextToken` cursors with count metadata to avoid O(N) Firestore offset read costs.
- **DCI Oregon Record Identity & 11-State Adjusted Time Rule:** Persisted DCI GUIDs across re-ingest diffing to eliminate duplicate POST rejections and SSN-in-URL fallbacks; unified per-side adjusted call omission across 10 Sandata states and Arizona AHCCCS.
- **Self-Healing Prisma Migrations & FEFO Batch Integrity:** Eliminated P3009 deployment crash loops via Docker entrypoint auto-recovery + idempotent SQL guards, and built `sale\_item\_batches` to prevent silent pharmaceutical inventory loss on sale cancellation.