

HENRY DIBIE

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FULL-STACK ENGINEER | AI APPLICATIONS | CLOUD & PRODUCT SYSTEMS

PROFESSIONAL SUMMARY

Full-Stack Engineer with 5+ years across software, data, and ML engineering, and full-stack web and mobile delivery since 2025. Currently lead engineer on Laetiva, a multi-vendor marketplace spanning React Native/Expo, Next.js, Node.js, Firebase, multi-provider subscription payments, real-time chat, and a Firestore-backed CMS. Experienced in owning systems end to end: architecture and database design, implementation, testing, cloud deployment, debugging, and iteration. Also builds AI applications with OpenAI APIs, RAG, tool/function calling, embeddings, Whisper, and agentic workflows.

TECHNICAL SKILLS

Frontend & Mobile: React, React Native, Expo, Next.js, Zustand, React Query, Tailwind CSS

Backend & APIs: Node.js, TypeScript, Python, FastAPI, Firebase Cloud Functions, tRPC, Hono, REST API design

Databases & Storage: PostgreSQL (pgvector), Firestore, BigQuery, Firebase Storage, TimescaleDB

AI & Integrations: OpenAI, LLM applications, RAG, LangGraph, tool/function calling, embeddings, Whisper

Cloud & Infrastructure: Vercel, AWS, Google Cloud (Firebase, Cloud Functions, BigQuery), Azure, Docker, GitHub Actions, CI/CD

PROFESSIONAL EXPERIENCE

Lead Developer (Contract) | Laetiva (Multi-Vendor Marketplace) | January 2026 to Present

Backend, web, and mobile integration for a marketplace connecting vendors and customers worldwide, with country-aware discovery, pricing, and payment providers, working directly with the founder.

- Designed and built the Firebase backend (Cloud Functions on Node.js 20 and TypeScript, Firestore, Auth, Storage) covering vendor onboarding and verification, catalog management, server-computed cart pricing, order lifecycle, real-time chat, payment proofs, receipts, and invoices with PDF output.
- Enforced authorization in Firestore security rules and callable functions: five admin roles, field-level update rules, no client writes to business-critical collections, rate limiting on billing-sensitive endpoints, and App Check in monitor mode ahead of enforcement.
- Integrated Paystack, Flutterwave, and Stripe behind one provider-neutral checkout. All three webhooks share one subscription state machine with signature verification, idempotency, distributed locking, and out-of-order event resolution, with Firestore as the single source of truth.
- Built the Next.js/TypeScript web layer: a 14-page landing site, a Firestore-backed CMS so non-technical staff update content without code changes, and a vendor portal for billing history and subscription plans. Production build verified across 26 routes.
- Wired the React Native/Expo app (iOS, Android, web) to the backend through a Service, Repository, and Mapper layer (13 services, 11 repositories, 10 mappers), replacing mock data with live Firebase calls for auth, cart pricing, orders, chat, catalog moderation, verification, ratings, and invoices.
- Wrote 300+ acceptance tests across five feature areas, run against the Firebase Emulator Suite and including denial-path cases for authorization bypasses. The suite caught a webhook bug that would have blocked vendors from resubscribing after a cancellation.
- Built a rule-based moderation engine for chat and catalog listings with backend-managed rules and a cumulative trust score that escalates account status transactionally, so concurrent flagged messages cannot bypass a threshold.
- Translated product requirements into milestones and architecture decisions with the founder, documented frontend integration contracts, added structured operational logging with documented alert conditions, and deployed the landing site ([laetiva-site-dev.web.app](#)) and vendor portal ([laetiva-portal-dev.web.app](#)) to Firebase Hosting dev environments, plus a web build of the mobile app ([laetiva-dev.web.app](#)) used for pre-release testing against the live backend.

Freelance Full-Stack Developer | November 2025 to Present

Top Rated on Upwork, 100% Job Success Score. End-to-end projects across marketplace, fintech, healthcare, and telecommunications.

- **Compliance portal (New Care Health Partners):** AWS backend for applicant and employee onboarding with document management, expiry tracking, automated reminders, role-based access control, and admin-only audit trails.
- **Telecom data platform (Culture Wireless):** Azure-hosted SFTP ingestion of CDR and DSR records, FastAPI aggregation services, TimescaleDB, and Prophet forecasting, load-tested against 5.4 million records for a 30,000-subscriber base.
- **Subscription resale platform (Subsaver):** FastAPI backend with Paystack payments, account provisioning, credential rotation, stock management, and audit logging of every credential issue.
- **Fintech AI audit:** Independent review of a fine-tuned LLM tool-calling system, covering regression analysis and inference stack risk assessment, with a production recommendation.

Data Research Analyst, Automation and AI | Stears | 2024 to 2025

- Built dbt and PySpark pipelines aggregating data across 54 African markets for sales and risk intelligence.
- Built a call-intelligence pipeline using Whisper transcription and OpenAI embeddings, integrated with the HubSpot API.
- Wrote scheduled production scripts for corporate profile, leadership, and news extraction tracking African deal activity. Reviewed junior analysts' work before publication.

Credit Risk Analyst | Renmoney Microfinance Bank | 2022 to 2024

- Built probability-of-default models with XGBoost and logistic regression, using SHAP for interpretability.
- Ran A/B and champion-challenger tests on credit policy changes and built Power BI portfolio dashboards for the Head of Credit.

Data Scientist | Nupat Technologies | 2020 to 2022

- Consulted for client companies on insurance claims data science, and built internal curriculum and mentored junior data scientists in the Nupat code camp.

SELECTED PROJECTS

Laetiva Marketplace | github.com/HenryMorganDibie/multivendor-marketplace-platform

- Full-stack multi-vendor marketplace: React Native/Expo, Next.js, Firebase/Firestore, Cloud Functions, multi-provider subscriptions, real-time chat, CMS, and vendor operations. Live dev site: laetiva-site-dev.web.app. Mobile app: github.com/HenryMorganDibie/multivendor-marketplace-mobile.

DevAds | github.com/HenryMorganDibie/devads | devads-app.vercel.app

- Developer sponsorship network in a Turborepo monorepo: three Next.js apps, a Fastify API on Prisma and PostgreSQL, and a VS Code extension. Server-authoritative reward and billing logic using row-locked transactions and idempotent events, with 89 tests including concurrent-request tests.

The Scribe | github.com/HenryMorganDibie/the-scribe | the-scribe-ebon.vercel.app

- AI ghostwriting assistant for authors: React/TypeScript frontend with a TipTap editor, FastAPI backend, and PostgreSQL with pgvector retrieval over the author's own writing. Swappable Claude and Llama provider layer, streaming responses, and Alembic migrations. Deployed on Vercel, Render, and Supabase.

Schema-Watch | github.com/HenryMorganDibie/schema-watch

- TypeScript/Node monorepo and npm CLI that diffs API response shapes, flags breaking changes, lists the affected frontend files, and fails CI with PR comments and SARIF output. Used on its own CI. Apache-2.0 core, with a hosted Cloud tier in early access.

EDUCATION AND RECOGNITION

BSc, Business Administration | École Supérieure de Gestion et de Technologie

Professional Certification in Data Analytics | Turing College, Digital Explorers II Scholar, 2024

1st Place, Splendor Analytics Trial Activation Challenge | 94/100, Distinction