

VIVEK PATEL

Senior Full-Stack Developer · 9+ Years · Toptal / Upwork Top Rated Plus Freelancer

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SUMMARY

Full-stack developer with 9+ years shipping production systems for enterprise and startup clients across EdTech, B2B e-commerce, FinTech, and enterprise consulting. Recent work includes architecting a fintech-grade anti-fraud system for a live gift-card platform, and leading the rewrite of a **1TB-scale CSV import pipeline** for a multi-tenant banking and hospital platform used by KPMG's global client base. **Top Rated Plus on Upwork for 4 consecutive years (4.9 rating, 38 jobs, \$180K+ earned).**

EXPERIENCE

Freelance / Independent Consultant — Full-Stack Developer

Dec 2020 – Present

Remote — Ahmedabad, Gujarat (clients in US, Canada, Japan, Nigeria, Australia, UK, India)

AverPoint (averpoint.com) — EdTech media-literacy platform, used by Boston University, Fordham, Michigan, and Financial Times—partnered universities | Jul 2021 – Present

- **Owned the product end-to-end** as the sole engineer on an early-stage build — React frontend, Node.js backend, and all AWS infrastructure.
- Built a browser extension to track **verified reading engagement**: initial “active minutes” tracking was gameable via random scrolling, so refined it to paragraph-level on-screen tracking plus a required AI-generated comprehension quiz before granting credit, tied to a weekly scoring/leveling system.
- Built two GPT-4o-mini content pipelines: a course-building agent generating topic and article suggestions via NewsAPI, and a syllabus-parsing pipeline extracting structured schedules from PDF/DOC curricula into a typed JSON schema.
- Engineered a multi-round AI news-retrieval pipeline (AWS Lambda, NewsAPI.ai, GPT-4o-mini) — LLM query generation, parallel relevance scoring, and OpenAI web-search fallback — to curate 10 vetted readings per course topic from 17 approved publishers, cutting **execution time 41% and scoring token usage 69%** through prompt optimization.
- Migrated infrastructure from Heroku to AWS with a zero-downtime staging→production CodePipeline (auto-shutting down idle staging servers to control cost), added AWS Cognito auth, and secured MongoDB/backend services behind a VPC.
- Built Python ML models (KNN) for automated multi-class content classification, and a daily automated AWS cost-reporting email to catch spend surprises early.

AnyCard (Canada) — Gift card / prepaid card issuing & merchant platform | Mar 2025 – Jul 2026

- Built the core Laravel 13 / PHP 8.3 REST API on an **Oracle** database (not the typical MySQL/Postgres+ORM stack), handling the full card lifecycle — issue, activate, reload, redeem, void — through a repository pattern over stored procedures.
- **Designed a layered anti-fraud defense** on the balance-check endpoint: CAPTCHA scoring → blocklist → three independent rate limits → cross-card velocity detection → lockout tiers, cheapest checks first, all identifiers hashed and responses deliberately generic to avoid revealing which rule tripped.
- Built an async-by-default delivery pipeline (SQS-backed queued jobs) for card/bonus generation with explicit retry, backoff, and clean state rollback on terminal failure, keeping checkout fast independent of downstream delivery speed.
- Shipped Apple/Google Wallet issuance, Stripe and Checkout.com payment integrations, and a Power BI-connected reporting suite (liability, statement, and transaction reports).
- Segregated admin/partner/public trust boundaries within a single Dockerized service (supervisord-managed queue workers, Sentry monitoring) — simulating multi-tenant isolation without microservices.

Virtusize — FitVis virtual try-on & A/B testing platform for fashion e-commerce | Mar 2024 – Jun 2026

- Built a measurement-driven SVG visualization engine (TypeScript, SVG.js, Vue.js) that dynamically deforms product SVGs to render accurate fit comparisons against a body or reference objects, exported as an embeddable Vue.js component library across client sites.
- Architected the engine as a staged pipeline (config → measurement → labeling → asset resolution → render) using strategy, registry/resolver, and adapter patterns, so new products or measurements plug in without touching core rendering logic.
- Designed and shipped an A/B testing layer for the existing embedded-widget loader — deterministic, origin-scoped browser variant assignment (2+ variants, custom traffic splits) that stays consistent across independent client domains, with per-variant event tracking and no client-side redeployment required.

Chime — Misinformation detection & counter-messaging platform | May 2023 – May 2024

- Built a full-stack platform (React/TypeScript, Node.js/Express/TypeScript, MongoDB) that pulls tweet-volume trends, social graphs, and spreader analysis from a Georgia Tech research API for real-time claim-detection dashboards.
- Built a multi-platform ad-publishing engine integrating Facebook/Instagram Graph API, Twitter Ads API, and YouTube (Google Ads API) to programmatically create campaigns, ad sets, and creative, with location/interest/lookalike audience targeting across platforms.
- Implemented multi-tenant, role-based team/publisher access control, AWS Cognito/Amplify auth, and Stripe subscription billing with webhook-driven budget management.

Skuaad (India) — Hiring / recruiting platform | May 2021 – Jan 2023

- Built a Go + Python LinkedIn profile-scraping pipeline (scan → extract → transform) with Selenium-driven session automation and throttled rate-limiting, feeding a MongoDB candidate warehouse for direct-hire sourcing.
- Automated the candidate funnel end-to-end: resume-based profile creation, automatic Codility test scheduling with pass/reject routing, interviewer assignment with auto-generated calendar invites, plus a funnel/analytics dashboard.

Alerzo (alerzo.com) — B2B wholesale-to-retail e-commerce, Nigeria | Oct 2021 – Jan 2023

- Built the React/GraphQL admin panel and inventory backend (Node.js, PostgreSQL + MongoDB, microservice architecture with an API gateway) for a bulk-order platform serving vendors across multiple warehouses.
- Built a lightweight PWA from scratch replicating the native app experience, letting vendors order directly from the browser with no install required.

Additional freelance engagements

- **SB Gold** (Aug–Nov 2024) — React Native/Expo jewellery-retail app: live gold/silver rate calculator with India-specific pricing logic, AWS Amplify/Cognito backend, S3-backed photo gallery, shipped to iOS/Android via EAS Build.
- **TransientCard** (Mar–Jul 2023) — Serverless, self-expiring form system on Azure Logic Apps + Functions: one-time Adaptive Card links, JWT time-limited tokens, Managed Identity auth between services.
- **Sebie Salim / Tenakata** (Feb–May 2021) — Node.js/Express state-machine engine for a USSD finance app (sales, cash-out, referrals), Redis session state, deployed on EC2 with PM2.
- **Azure Go Billing** — Go service automating Azure cloud billing/cost reporting: triggers usage-report downloads via the Azure Billing API, parses CSVs into PostgreSQL (GORM), and pulls Kubernetes namespace-level cost data from the Kubecost API.
- **Upwork Scraper** — Puppeteer automation tool (with stealth plugin) to track freelancer profiles and job postings, with anti-detection measures and scheduled headless-browser runs on a cloud VM.
- **internationalshowtimes.com** — large-scale movie-showtime scraping across global theatre sites (Node.js).

Argusoft India Ltd.

Jun 2017 – Nov 2020

Senior Software Developer, Data & Operations Domain — Gandhinagar, Gujarat

KPMG Sofy Suite (kpmgsofy.com) — multi-tenant enterprise platform for banks and hospitals

- **Led the Data team** as architecture owner for the platform's import/export pipelines.
- Scaled CSV/Excel import/export from 1–10GB to a reliable **50–100GB**, via an event-driven architecture (Azure Logic Apps + Functions triggered on Blob/File Storage drop) with idempotent replay for safe retries, inferring column mappings and types automatically from the source file.
- Diagnosed a Node.js performance ceiling at that scale, benchmarked Java, .NET, C#, Python, and Go, and **rewrote the pipeline in C# on Azure Functions** for a major throughput gain.
- Implemented **dynamic multi-tenant provisioning** on Azure PaaS — spinning up a new database and restoring a blank schema per tenant, with an automated migration system applied across all tenant databases and per-tenant environment/domain isolation.
- Implemented attribute-based access control and per-tenant database isolation (~10,000 users/tenant) using PostgreSQL Row-Level Security, plus JWT + SSO/SAML auth with secrets in Azure Key Vault.
- Built dynamic dashboards and conditional forms generated from client-defined schemas, with the underlying SQL schema derived automatically from those definitions.
- Built a Puppeteer-based PDF generation microservice on Azure Functions to export dashboards (with embedded charts and forms) on demand, and a drag-and-drop dashboard builder for configurable chart/table widgets.
- Supervised serverless microservices (Azure Functions + Docker, Event Hubs/AMQP queues) for TB-scale CSV data import.
- Worked on-site at KPMG Global Headquarters, Amstelveen, Netherlands (3 months, Aug–Oct 2019) on client delivery and critical production issue resolution.

SELECTED PERSONAL PROJECTS

Bespoke Diaries — Custom Journal & Planner Generator

- Built a drag-and-drop journal template designer (React, TypeScript, TanStack Query/Form, Postgres, Drizzle, Zod) with a nested grid layout engine, configurable widgets, and a pixel-accurate, print-ready PDF pipeline.
- Built an AI content-generation system (Claude Haiku) that dynamically generates per-page callouts by topic, with a two-phase Postgres caching layer preventing repeat content across employees in the same corporate order.

AI Document Assistant — RAG Chatbot

- Python, LangChain, Pinecone, OpenAI API. Uploaded documents are chunked and embedded into a vector store; the resulting chatbot is embeddable on any client site and answers visitor questions with source references back to the original document.

Other side projects

- A Starbucks store-locator scraper (TypeScript/Cheerio), a round-robin tournament scheduler (React), a console script that auto-books COVID vaccination slots — and a documented 100K high score in the Google Dino Game.

SKILLS

- **Languages:** JavaScript, TypeScript, Python, PHP
- **Frontend:** React, Next.js, Vue.js, React Native/Expo, SVG.js, TanStack Query/Form
- **Backend:** Node.js, Laravel, GraphQL, WebSockets, Drizzle ORM, Zod
- **AI/ML:** LangChain, OpenAI API (GPT-4o-mini), Claude API, Pinecone/vector databases, RAG pipelines, Python ML (scikit-learn/KNN)
- **Data:** PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, ElasticSearch, Oracle
- **Cloud/DevOps:** AWS (Lambda, EC2, S3, CloudFront, Elastic Beanstalk, API Gateway, CodePipeline, Cognito, Amplify, SQS), Azure (Functions, Logic Apps, App Services, Storage, Service Bus, Key Vault, Entra ID), GCP, Docker, GitLab CI/CD, GitHub
- **Payments & Integrations:** Stripe, Checkout.com, Apple/Google Wallet, Facebook/Instagram Graph API, Twitter/X Ads API, Google Ads API, Power BI
- **Testing:** Jest, Vitest, Playwright, Puppeteer, Selenium, Stryker mutator, Protractor

EDUCATION

Dharmsinh Desai University — B.Tech (Honors), Information Technology
Nadiad, Gujarat

Jul 2013 – May 2017

CERTIFICATIONS & ACHIEVEMENTS

- **AWS Certified Cloud Practitioner**
- Top Rated Plus on Upwork for 4 consecutive years — 4.9 average rating across 38 jobs, \$180K+ earned; Upwork Skill Certification in JavaScript Back-End Development.
- Eklavya Award, Dharmsinh Desai University — ranked first across the first four semesters of B.Tech.
- Named Employee of the Month (Jun 2019) at Argusoft for a high-performance utility to import hundreds of GB of data with rate limiting and ZIP support.
- Active Stack Overflow contributor, 1,018 reputation.