

Harshal Patil

Full Stack Developer & AI Architect

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PROFESSIONAL SUMMARY

Full Stack Developer & AI Architect with hands-on experience engineering production web platforms, AI-driven tools, and serverless edge infrastructure. Proficient in TypeScript, JavaScript (React 19, Next.js 15, Astro), Python, and Cloudflare Workers (Durable Objects, D1, WebSockets), backed by production deployments on AWS (EC2, S3, CloudFront, RDS) and Firebase. Adept at end-to-end product engineering — from responsive UI/UX and client-side WebAssembly/WebCrypto processing to Model Context Protocol (MCP) integrations, REST APIs, and automated CI/CD workflows.

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science & Engineering

2023 — 2027

M.G.M's Jawaharlal Nehru Engineering College, Chhatrapati Sambhajnagar, Maharashtra

EXPERIENCE

Freelance Full Stack Developer & Cloud Engineer

2024 — Present

Independent / Client Engagements · Remote

- Delivering end-to-end web applications, mobile apps (Flutter), and custom APIs for diverse business clients.
- Architecting and provisioning production cloud environments on AWS and Firebase, including domain routing, databases, and CI/CD pipelines.
- Collaborating directly with clients to scope technical requirements, optimize UI/UX, and deliver scalable digital products.

Web Developer Intern

Dec 2025 — Jul 2026

Cielsko Ecommerce LLP · Full-time · Remote

- Engineered and shipped multiple WordPress-based e-commerce storefronts, managing product catalogs, payment integrations, and responsive UI themes.
- Owned end-to-end deployment workflows — from staging environment setup to production release, reducing deployment turnaround time.
- Partnered with design and product teams to scope feature requirements, implement UI enhancements, and resolve production issues.

PROJECTS

Genora AI Suite

Next.js 15 · React 19 · TypeScript · Firebase · TailwindCSS

Engineered a production-grade AI platform featuring 8 native tools including GENxCode (developer code engine across 40+ languages), Chat with PDF (document intelligence), SEO Generator, and Resume Builder. Powered by custom Firestore state-management for real-time interactivity.

genoracore.com

TryWebhook

TypeScript · Cloudflare Workers · Durable Objects (SQLite) · WebSockets · Astro

Engineered a high-performance, edge-native webhook inspection platform that captures, debugs, and replays HTTP events in real time with byte-exact payload fidelity and zero server-side secret persistence. Features real-time WebSocket streaming with SQLite-backed Durable Objects, multi-provider cryptographic verification (HMAC-SHA256 & Ed25519), configurable mock HTTP responses, and HAR 1.2/JSON export.

trywebhook.com

CheckSSLExpiry

Astro · TypeScript · REST API · MCP Server · Security

High-precision SSL/TLS certificate monitoring & security platform. Features instant trust-chain inspection, passwordless 24/7 automated advance email alerts, DNS CAA validation (RFC 8659), and an AI Model Context Protocol (MCP) server for Claude & Cursor.

checksslexpiry.com

SellerPhotoKit Suite

Preact · WebAssembly · Canvas API · Client-Side · TailwindCSS

Privacy-first, client-side batch listing photo resizer & optimization suite for marketplace sellers (eBay, Etsy, Poshmark, Depop). Automatically decodes iPhone HEIC photos, strips sensitive EXIF & GPS metadata, whitens backdrops, and compresses images with zero server uploads.

sellerphotokit.com

UptimeCove Monitor

Open Source · Astro · Cloudflare Workers · D1 Database · TypeScript

Open-source, edge-native uptime monitoring and public status page platform running serverless on Cloudflare Workers and D1 database. Features per-minute health checks, automated incident tracking, response latency metrics, and zero hosting costs.

uptimecove.com

GitHub

AWS Cloud Architecture

EC2 · RDS · Route53 · S3 · CloudFront · ACM

Architected and deployed production full-stack cloud infrastructure on AWS — provisioning EC2 compute, RDS databases, S3 object storage, Route53 DNS routing, CloudFront CDN edge caching, and automated SSL/TLS certificates via ACM.

Ancestriq

JavaScript · Generative AI · REST APIs · Storytelling

AI-powered narrative platform generating unique, personalized ancestry stories and family heritage chronicles from user-submitted family data with rich historical context using generative AI models.

TECHNICAL SKILLS

Languages

TypeScript, JavaScript (ES6+), Python, Dart, SQL, HTML5, CSS3, PHP

Backend & Edge

Cloudflare Workers & Durable Objects, WebSockets, REST APIs, MCP Server, Node.js, Express.js, Firebase

Databases

Durable Objects (SQLite), Cloudflare D1 (SQL), Firebase Firestore, MySQL, MongoDB, SQLite

Frontend

React 19, Next.js 15, Astro, Preact Signals, TailwindCSS, Flutter, Canvas API, WebAssembly

Cloud & DevOps

AWS (EC2, S3, RDS, CloudFront, Route53, ACM), Cloudflare (Pages, Workers, KV), Git, GitHub

Architecture & AI

Model Context Protocol (MCP), WebCrypto API (HMAC/Ed25519), Edge Systems, SSL/TLS, CI/CD

CERTIFICATIONS & TRAINING

Python Programming (IIT Bombay) · AWS Cloud Fundamentals (NxtWave) · Data Analytics Fundamentals (NxtWave/CCBP) · Responsive Web Development (NxtWave) · Frontend Web Development (NxtWave)

INTERESTS

Edge Computing & Serverless • Generative AI & Agent Tooling (MCP) • Cloud Architecture • Open Source • Technical Writing • Client-Side WebAssembly