

DEVESH SINGH

Full-Stack & Desktop Software Engineer

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PROFESSIONAL SUMMARY

Full Stack and Desktop Developer with hands-on experience building production-grade, cloud-native applications. Designed and shipped PrintStudio — a B2B SaaS print automation platform featuring a Cloudflare Workers backend, real-time WebSocket orchestration via Durable Objects, Razorpay payment integration, and a cross-platform Electron desktop client. Also built Amagle — a healthcare QR emergency ID system with OTP auth, QR code generation, and medical document management. AWS Academy Cloud Foundations certified with a strong focus on security, performance, and end-to-end system design.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES6+), SQL, HTML5, CSS3

Frontend & Desktop: React, Electron, React Router DOM, Zustand, TailwindCSS, CSS Modules, Recharts

Backend & Serverless: Hono, Express.js, Node.js, Cloudflare Workers, Cloudflare Durable Objects (WebSockets)

Cloud, Databases & Storage: Cloudflare R2 (S3-Compatible), Cloudflare D1 (Serverless SQLite), MongoDB, AWS Academy Cloud Foundations

APIs & Payment Gateways: Razorpay Payment SDK, Razorpay Webhooks, Axios, REST APIs

Developer Tools: Git, GitHub, Vite, Wrangler CLI, npm, VS Code, SumatraPDF, Postman

WORK EXPERIENCE

AMAGLE SOFTWARE

Feb 2026 – Jul 2026

Software Developer Intern

- **Engineered the client portal** for an Emergency QR Profile System from scratch, creating a feature-rich, high-performance user dashboard using React, TypeScript, and Vite.
- **Designed and built** secure onboarding workflows, detailed medical profile configurations, and multi-profile selectors using modular CSS and React Router DOM.
- **Implemented** client-side session managers enforcing an auto-logout policy (warning at 25 mins of inactivity, logging out at 30 mins) to guarantee HIPAA-aligned health data protection.
- **Configured** axios request and response interceptors to handle 401 Unauthorized errors globally, automatically cleaning stale local token state and forcing safe login redirects.
- **Integrated** QR code generator utility utilizing SVG-to-PNG serialization, allowing emergency workers to instantly scan and view medical summaries without authentication during critical situations.

ACADEMIC & OPEN-SOURCE PROJECTS

PrintStudio – Open-Source B2B Print Counter Automation SaaS

Apr 2026 – Present

Full-Stack & Desktop Software Developer (Personal Contribution)

[PrintStudio](https://print-frontend.pages.dev/) | <https://print-frontend.pages.dev/>

- **Designed and engineered** a state-of-the-art print counter automation platform comprising a mobile customer client, a Cloudflare Workers backend, and an Electron desktop printing daemon.

- **Architected a 3-tier distributed system:** serverless Cloudflare Workers backend, React + Electron desktop client, and React customer PWA — deployed to production.
- **Architected serverless API via** Hono on Cloudflare Workers and Durable Objects. Developed a real-time order dispatch engine using WebSockets and connection pooling with WebSocket Hibernation, reducing worker CPU runtime and compute overhead.
- **Developed** a background print daemon in Electron and React 19/Zustand that interfaces with physical printers via pdf-to-printer and splits documents into dedicated color and black-and-white print queues, reducing local printing costs.
- **Crafted** a mobile client portal featuring streamed multipart/form-data uploads (XHR) to bypass base64 overheads, implementing a queue concurrency limit of 2 to protect low-RAM mobile devices from browser crashes.
- **Integrated** the Razorpay payment checkout script, verifying transactions securely on the worker and triggering automated dispatch notifications via WebSocket events.
 - Razorpay payment + subscription billing: order creation, HMAC-SHA256 verification, and webhooks for automatic license activation across 3 tiers
- **Optimized database schema using** a SQLite-compatible Cloudflare D1 schema with composite indexing on order logs and shop license keys, allowing instantaneous dashboard metrics computation (revenue, pages, active connections).

EDUCATION

Satyug Darshan Institute of Engineering & Technology

2022 – 2026

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

Faridabad, Haryana

CERTIFICATIONS & WEBINARS

- AWS Academy Graduate – AWS Academy Cloud Foundations (AWS Cloud Infrastructure Essentials)

SOFT SKILLS

Collaborative Teamwork, Analytical Problem-Solving, Technical Documentation, Adaptability, Strong Work Ethic