Mohit Dagar

Gurugram, India | +91-9953953168 | work.mohitdagar@gmail.com | mdagar.pages.dev | LinkedIn | GitHub

Professional Summary

Full-Stack Web Developer with hands-on experience as the sole in-house engineer at VOLUME (volume.in) ↗, owning end-to-end maintenance and delivery of **12+ production D2C e-commerce and enterprise websites** from design handoff to live deployment. Skilled in JavaScript (ES6+), React.js, HTML5, CSS3, Shopify Liquid (OS 2.0), Data Structures & Algorithms (DSA), and AI-assisted full-stack product development, delivering fast, conversion-focused web experiences that cut page weight and drive business growth.

Work Experience

Full-Stack Web Developer (Sole In-House Web Engineer) Oct. 2022 – Oct. 2023
VOLUME (volume.in ↗) | Creative & Brand Engineering Agency *New Delhi, India*

- Owned the agency's entire web development vertical solo across **12 production client websites**, pitching the CCO to bring web engineering in-house and retaining **INR 18L–32L+** in vendor fees (**+16.5% EBITDA growth** on **INR 2.01 Cr** revenue).
- Partnered directly with brand designers and copywriters to translate custom Figma layouts and packaging art into responsive storefronts for **GRB Dairy (INR 1,200+ Cr FMCG)**, **T&T Group (INR 450+ Cr real estate)**, and **Disha**.
- Designed and built custom multi-pack bundle selectors, interactive product quizzes, and zero-reload Ajax cart flows (`/cart/add.js`) on **Shopify OS 2.0**, expanding checkout cart tiers by **3.1×–6.3×** across 6 D2C storefronts.
- Reduced client-side JavaScript weight by **74%–96%** and achieved **sub-second (0.8s–0.94s) mobile load times** by replacing heavy jQuery plugins and uncompressed PDFs with native ES6 scripts, interactive SVGs, and **Cloudflare R2 WebP** media.
- Audited and halted a staging Wix migration on the flagship volume.in ↗ agency portal that introduced a **+270% mobile latency regression** (3.5s FCP, 1.85 MB JS), rebuilding the showcase with modular ES6 and CSS3 for sub-second 4G loads.

Independent Product Builder & Sabbatical (Indian Defence Services Prep) Oct. 2023 – Present
Full-Time CDS/AFCAT/SSB Examination Preparation & AI-Assisted Web Product Engineering *Gurugram, India*

- Pursued full-time preparation for the Indian Armed Forces competitive examinations while practicing **Data Structures & Algorithms (DSA)** in JavaScript and directing AI-assisted end-to-end development of interactive web applications.

Projects & Selected Client Work

Invariant — Interactive JavaScript DSA & Interview Platform ↗ | *JavaScript (ES6+), HTML/CSS, Vercel* 2024 – 2026

- Designed the product architecture and learning flow for a visual interview prep platform covering **150 LeetCode problems** across **23 algorithmic tracks**, structured into a 3-stage progression (**Brute Force → Optimized → Loop Invariant Proof**).
- Orchestrated interactive step-by-step algorithm execution visualizers, an in-browser code testing workspace, instant client-side search (<**5ms** across 175 guides in a **680 KB** bundle), and a context-aware AI study assistant via AI-assisted workflows.

Interactive 3D Developer Studio (`mohit-dagar.pages.dev`) ↗ | *JavaScript, Three.js, CSS3D, GSAP 3* 2024 – 2026

- Designed an interactive 3D developer room where users zoom into a desk laptop running a custom **macOS-inspired Web OS**, featuring synchronized **dual-screen (16:9 & 9:16) case studies**, Wayback era comparisons, and a **2D mode ↗**.

D2C Wellness & Skincare Storefronts (Sol-A-Day ↗, Sipgel ↗, Kanpeki ↗, Srot) *Shopify OS 2.0, GSAP 3, AWS, ES6*

- Won **Best UI/UX Website at the afaqs! Marketers' Excellence Awards ↗** for **Sol-A-Day** by building an interactive supplement goal selector in native ES6, cutting homepage JS weight by **94%** (1.6 MB → 94 KB) for a **0.9s mobile load**.
- Built a 10-scene **GSAP ScrollTrigger** storytelling funnel, a 15-herb ingredient explorer (**-96% script weight**), and an AWS-hosted symptom quiz for **Sipgel**, plus multi-step skincare regimen builders for **Kanpeki** and **Srot** (100+ salons).

Retail & Enterprise Portals (Bisnac, Disha Publication ↗, Project-T ↗) *Shopify, Magento 2, SVG, ES6*

- Migrated **GRB Dairy's Bisnac** off Wix to Shopify OS 2.0 (**-88% JS weight**, **0.8s load**) with Blinkit/Zepto quick-commerce routing, and optimized category carousels across **Disha Publication's 10,000+ SKU** catalog (**-89% script weight**).
- Accelerated mobile Time-to-Interactive by **86%** (6.4s → 0.86s) and cut brochure payload by **84%** (28.5 MB → 4.5 MB) for **T&T Group's Project-T & Eutopia** (INR 450+ Cr inventory) by building interactive 60fps SVG floor-plan selectors.

Technical Skills

Core Languages & CS: JavaScript (ES6+), HTML5, CSS3 | Data Structures & Algorithms (DSA), DOM Manipulation, Web APIs
Frontend & E-Commerce: React.js, Shopify Liquid (OS 2.0), GSAP 3, Tailwind CSS, Responsive UI/UX, Core Web Vitals
Tools, Cloud & Workflow: Git, GitHub, REST & Ajax APIs, Node.js/Express, AWS (S3, EC2, EB), R2, AI-Assisted Workflows

Education

Jamia Millia Islamia New Delhi, India
Master of Computer Applications (MCA) — First Class *2020 – 2022*

University of Delhi New Delhi, India
B.Sc. (Hons.) in Computer Science — First Class *2016 – 2019*