Mohit Dagar

Full-Stack Software Developer | +91-9953953168 | work.mohitdagar@gmail.com | linkedin.com/in/mohit-dagar | github.com/mjzd7

Summary

Full-Stack Software Developer who established and led the in-house web engineering vertical at VOLUME (volume.in), shipping **12+ production D2C e-commerce and enterprise web platforms** via JavaScript (ES6+), Shopify Liquid OS 2.0, HTML5, CSS3, SQL, and AWS. Retained **INR 18L–32L+** in agency margin, contributed to **+16.53% YoY firm EBITDA growth**, lifted client storefront Average Order Value (AOV) by **+211% to +529%**, and cut JS payloads by **74%–96%**. Strong foundation in **Data Structures & Algorithms (DSA)**, returning to software engineering after a career break for Indian Defence Services preparation.

Technical Skills

Languages & Core CS: JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3 | Data Structures & Algorithms (DSA), OOP
Frontend, 3D & Commerce: React.js, Next.js, Three.js / WebGL, GSAP 3, Tailwind CSS, Shopify Liquid (OS 2.0), Magento 2
Backend, Cloud & Tools: Node.js, Express.js, REST & Ajax APIs, AWS (Elastic Beanstalk, EC2, S3), Cloudflare R2, Git

Experience

Career Break Oct. 2023 – Present
Indian Defence Services Examination Preparation & Independent Technical Upskilling *New Delhi, India*

- Pursued full-time preparation for the Indian Armed Forces (Defence Services) competitive examinations while maintaining consistent hands-on practice in Data Structures & Algorithms and full-stack systems engineering.
- Architected **Invariant** (**175 guides**, **150 3-level DSA problems** across **23 tracks**, **QuickJS WebAssembly judge**, **450 Acorn AST trace blocks**) alongside an interactive 3D WebGL2 spatial portfolio.

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

- Retained **INR 18.0L–32.0L+** in development margin and supported **+16.53% YoY agency EBITDA growth** (on **INR 2.01 Cr** revenue) by pitching the Chief Creative Officer to bring web engineering in-house across **12 flagship builds**.
- Prevented a **+270% mobile latency regression** (3.5s FCP, 1.85 MB JS) on the flagship volume.in site by auditing a staging Wix migration and maintaining sub-second 4G load times using modular ES6, CSS3, and Cloudflare R2 WebP assets.
- Increased client storefront Average Order Value (AOV) potential by **+211% to +529%** across 6 D2C brands (Bisnac, Disha, Homsara, Kanpeki, Sipgel, Sol-A-Day) by building custom Shopify OS 2.0 bundle routes and `/cart/add.js` Ajax carts.
- Reduced client-side JavaScript weight by **74%–96.3%** and achieved **0.8s–0.94s mobile Time-to-Interactive** across e-commerce and enterprise portals (Project-T, Eutopia, Max Square, Aright) by replacing jQuery/RequireJS with vanilla ES6.

Projects

Invariant — LeetCode Top Interview 150 in JS | *JavaScript, QuickJS WASM, Acorn AST, Edge SSE, Upstash* 2024 – 2026

- Engineered a zero-dependency visual JS interview platform covering **175 guides** (**150 3-level problems** from Brute Force → Loop Invariant Proof across **23 tracks**, **6 MAANG guides**, **4 JS primers**) in a **680 KB Brotli** bundle with <**5ms search**.
- Built a hermetic **QuickJS WebAssembly judge** (3s/16MB limit, **5 polyglot codecs**), **450 Acorn AST trace blocks**, a **Vercel Edge SSE** AI assistant (Upstash rate limiting, prompt fencing), and **15 ADRs** passing **1,017+ automated checks**.

SIPGEL — D2C E-Commerce Storefront | *Shopify Liquid OS 2.0, GSAP 3, AWS Elastic Beanstalk, ES6* 2022 – 2023

- Lifted storefront Average Order Value (AOV) potential by **+266.2%** (INR 225 single pack → INR 824 3-month bundle) by architecting custom promotional routes (`/products/special20`) and dual 16:9 / 9:16 Swiper.js hero funnels.
- Cut 15-herb ingredient explorer script lines by **96.3%** (325 lines of jQuery → 12 lines of vanilla ES6) and built a 10-scene GSAP ScrollTrigger scrollytelling experience alongside an AWS Elastic Beanstalk symptom assessment quiz.

SOL-A-DAY — Wellness E-Commerce Platform | *Shopify Dawn 10.0, Vanilla ES6, CSS Grid, GA4* 2022 – 2023

- Won **Best UI/UX Website at the afaqs! Marketers' Excellence Awards** and lifted AOV potential by **+211.3%** (INR 899 → INR 2,799) by designing an intuitive rising-sun supplement interface and 3-month wellness trio bundles.
- Reduced homepage JavaScript payload by **94.1%** (1.6 MB → 94 KB) and initial network requests by **76.5%** (achieving a **0.9s load**) by replacing 42 third-party script tags with an 18-line native ES6 wellness goal selector.

BISNAC & DISHA PUBLICATION — High-Scale D2C Storefronts | *Shopify Crave, Magento 2, Ajax APIs* 2022 – 2023

- Boosted AOV potential by **+529.4%** (INR 119 → INR 749) and cut JS weight by **87.8%** (1.8 MB → 220 KB, **0.8s mobile load**) on GRB Dairy's **Bisnac** by migrating off Wix onto Shopify OS 2.0 with a custom 19-line ES6 Ajax cart.
- Increased AOV potential by **+478.9%** (INR 285 → INR 1,650) across **Disha Publication's 10,000+ SKU** Magento 2 academic catalog and eliminated **89.2%** of carousel script overhead using a 17-line native ES6 tab switcher.

Education

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

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