Arya Sharma

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Summary

Full-Stack Software Developer specializing in **React, Node.js, and SQL/NoSQL systems.** Experienced in building production-ready applications, AI-integrated **RAG solutions, high-performance** user interfaces with a strong foundation in **DSA** and **system design.**

Technical Skills

- **Languages:** JavaScript (ES6+), TypeScript, Java, SQL, HTML5, CSS3
- **Frontend:** React.js, Redux Toolkit, Tailwind CSS, Three.js (R3F), GSAP, Framer Motion, Lenis, Vite
- **Backend:** Node.js, Express.js, RESTful APIs, JWT Auth, RBAC (Role-Based Access Control)
- **AI Engineering:** LLM Integration (Gemini/OpenAI), RAG Architecture, Prompt Engineering, Vector Embeddings
- **Databases:** MongoDB (Atlas), PostgreSQL, MySQL
- **DevOps & Tools:** Git/GitHub, Docker, Vercel, Postman, Render, Payment Gateways (Razorpay/Stripe)
- **Core Fundamentals:** Data Structures & Algorithms(DSA) , OOP, DBMS, OS, Computer Networks, Computer Architecture

Achievements & Certificates

- Active participant in 30+ coding contests across LeetCode & CodeChef with consistent upsolving **[CodeChef 3★]** | **[LeetCode]** Rating 1700+
- **750+ DSA** problems solved across LeetCode, CodeChef and CodeFroces
- Software Engineering **[HKUST]**, Agile Project Management **[Google]**, Coding Interview Prep **[Meta]**,
- S JPMorgan Chase Software Engineering Virtual Experience — **[Forage]**

Projects

Portfolio | AI-Interactive 3D   Live Link| Github | Youtube Presentation   **June 2024 - Aug 2024**
Tech Stack: React, Three.js (R3F), Chatbase, Framer Motion, Tailwind

- **Spearheaded** a 3D immersive environment using React Three Fiber and math-based damping algorithms (maath/easing), maintaining a fluid 60 FPS interactive experience across devices.
- **Boosted Mobile Performance** from 41 to 56+ and Desktop to 86+ by implementing Draco Mesh Compression (70% asset reduction) and React Suspense for asynchronous asset orchestration.
- **Reduced Total Blocking** Time by utilizing delayed hydration and async execution for third-party AI scripts, ensuring sub-second Largest Contentful Paint (LCP).
- **Developed** a custom high-performance particle engine using HTML5 Canvas API and integrated hardware-accelerated scroll-bound animations via GSAP & Lenis**.**

AshFit | Full-Stack E-commerce Platform   Live link | Github | Youtube Presentation   **Nov 2024 - Feb 2025**
Tech Stack: React.js, Node.js, Express.js, SQL, Tailwind CSS, REST API, Postman, RBAC

- **Architected a decoupled full-stack ecosystem using Node.js and Aiven Cloud MySQL, orchestrating 25+ RESTful endpoints with a verified Time-to-First-Byte (TTFB) latency of <200ms (averaging 160ms).**
- **Hardened application security by implementing JWT-based authentication and custom Role-Based Access Control (RBAC) middleware, successfully protecting administrative routes and sensitive user data from unauthorized access.**
- **Spearheaded the development of an automated Admin Inventory Dashboard with full CRUD functionality, reducing manual product management overhead by ~50% for 20+ live performance-apparel listings.**
- **Orchestrated** a robust transaction pipeline by designing relational SQL schemas for persistent cart management and multi-step checkout, validating 100% of workflows via **Postman automated testing** to ensure zero data loss.
- **Streamlined** a production-grade CI/CD pipeline using **GitHub, Render, and Vercel**, enabling automated deployments and ensuring high availability of the storefront and backend API.

AshStar | AI-Powered Gamified SaaS Platform   Live link | Github | Youtube Presentation   **Sept 2025 – Present**
Tech Stack: React.js, Node.js, Express, MongoDB, GSAP, Google Gemini API, , Draco Compression

- **Spearheaded** the development of a gamified 3D interface utilizing GSAP Timelines and Lenis smooth scrolling, achieving hardware-accelerated animations and a consistent 77+ Lighthouse Performance score on pc**.**
- **Engineered** a robust AI integration using the Google Gemini API, implementing model redundancy logic (Pro/Flash failover) to maintain high service availability and bypass API rate-limiting during peak loads.
- **Designed** a relational-style MongoDB schema to manage persistent session-based "Neural Memory," enabling the seamless linking of 1,000+ data points across user histories, sessions, and chat logs.
- **Optimized** the delivery of 3D immersive assets by implementing Draco mesh compression, reducing model file sizes by over 65% while maintaining visual fidelity across desktop and mobile browsers.
- Streamlined development-to-production workflows by containerizing the backend using Docker, ensuring environment parity and reducing manual deployment overhead by approximately 30%.

Education

- B.Tech in Computer Science – Chitkara University | Graduated [2025] | CGPA: 7.77/10   **Sept 2021 - Aug 2025**