Aditya Kumar

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Experience

The Blockbusters July 2026 – September 2026
Software Engineer Intern *Remote*

- Architected an enterprise multi-store e-commerce backend across 75 RESTful routes (109 endpoints) and 23 Mongoose models, establishing role-based access control, MongoDB 2dsphere spatial routing, and SSE live kitchen order dispatch.
- Prevented stock overselling and eliminated payment state drift by engineering an ACID-compliant checkout engine utilizing MongoDB multi-document transactions and HMAC-SHA256 Razorpay webhook reconciliation.
- Streamlined release velocity and eliminated deployment regressions by engineering automated CI/CD pipelines via GitHub Actions and Docker, orchestrating build verification, linting, and Playwright end-to-end testing.

Triposaints Pvt Ltd August 2025 – March 2026
Full Stack & AI Engineer Intern *Remote*

- Accelerated travel API response times by 75% (800ms to 200ms) by implementing Redis-backed caching strategies for high-traffic booking and catalogue endpoints, significantly improving system throughput.
- Automated 20% of customer support workflows and eliminated query hallucinations by developing autonomous multi-agent systems and production RAG pipelines using LangChain, LangGraph, and dynamic tool calling.
- Delivered the company's flagship cross-platform Flutter application from inception to production, engineering responsive mobile UI, state management, and backend API integrations.

Projects

Vigilens | *React, Node.js, Express, MongoDB, MediaPipe, Socket.IO, Docker, Nginx* | Live Link

- Designed an edge-AI exam integrity platform that safeguards student privacy by running automated computer vision monitoring directly inside the browser, eliminating the need to stream invasive raw webcam footage to cloud servers.
- Orchestrated a dual-channel streaming pipeline using browser WebAssembly (MediaPipe FaceMesh and Hands) and Socket.IO, multiplexing 2 FPS video previews and telemetry with server-side frame caching to eliminate console latency.
- Reduced server video bandwidth by approximately 95% while guaranteeing zero exam downtime by engineering temporal scoring filters, 5-second alert cooldowns, and an in-memory ring buffer that absorbs logs during database outages.

Memrizor | *React, TypeScript, Node.js, Express, MongoDB, Redis, BullMQ, Gemini AI* | Live Link

- Built an intelligent knowledge management platform that captures web articles, social media threads, and video lectures, transforming fragmented online content into structured, searchable notes and contextual semantic memory.
- Decoupled intensive content processing by architecting an asynchronous ingestion pipeline across 3 specialized BullMQ Redis queues, handling web scraping, video subtitle parsing, and AI vectorization with exponential backoff retry policies.
- Eliminated external paid scraping dependencies and dead links by developing an AST-free HTML-to-Markdown transpiler, a 3-tier social scraping fallback (FxTwitter, VxTwitter, oEmbed), and a 4-second pre-flight reachability engine.

DoodleSync | *React, Node.js, Express, WebSockets, HTML5 Canvas* | Live Link

- Launched a real-time collaborative digital whiteboard enabling distributed teams to brainstorm, sketch wireframes, and share ideas synchronously within persistent, room-based virtual workspaces.
- Sustained 60 FPS multi-user canvas rendering by engineering full-duplex WebSockets with delta-stroke broadcasting and high-frequency event throttling, preventing UI frame drops and state divergence during concurrent sketching sessions.

Technical Skills

Frontend: TypeScript, JavaScript, React.js, Next.js, Tailwind CSS, Zustand, HTML5/CSS3

Backend & Databases: Node.js, Express.js, MongoDB, PostgreSQL, Mongoose, Prisma, Redis, WebSockets, REST APIs

AI Engineering: LangChain, LangGraph, RAG, MediaPipe (Computer Vision), Vector Databases, Tool Calling

Cloud & DevOps: Docker, AWS (EC2, S3), Nginx, GitHub Actions, CI/CD, Linux, Firebase

Certifications & Achievements

- **Certifications:** AWS Certified Solutions Architect – Associate, 100xDevs Full Stack & DevOps Programs
- **Hackathons:** Two-time Winner, 2nd Place at VytoBlitz Hackathon
- **Freelance:** Delivered 5+ Production-Grade Projects end-to-end for global clients

Education

ITS Engineering College (AKTU) August 2024 – Present
B.Tech Computer Science & Engineering (Data Science) *Greater Noida, India*