Amon Sharma

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EDUCATION

Indian Institute of Information Technology Vadodara	**Dec 2022 – May 2026 (Expected)**
*Bachelor of Technology in Computer Science	CPI: 8.18/10*	*Vadodara, India*
**CBSE Class 12	Bhartiya Vidya Bhavan's School, Vadodara**	**2022**
Percentage: 94.4%	*Vadodara, India*
**CBSE Class 10	Bhartiya Vidya Bhavan's School, Vadodara**	**2020**
Percentage: 90.6%	*Vadodara, India*

TECHNICAL SKILLS

Languages: C++, TypeScript, JavaScript, Python

Frontend: React.js, Next.js, Redux.js, Three.js, WebGL, React-three-fiber, React Native, React Query, GSAP, FIGMA, Spline

Backend: FastAPI, Next.js, Express.js, Node.js

Databases: PostgreSQL, MongoDB, MySQL, Supabase

Cloud & DevOps: Docker, Nginx, GitHub Actions, Google Cloud, Vercel

Gen-AI/ML: Langchain, N8N, Vercel AI SDK, Gemini API, OpenRouter, Ollama, AstraDB, Together AI

CS Fundamentals: CodeChef 3 Stars (1605), OOPs, DBMS, Operating Systems, Computer Networks, Mixed Reality, Metaverse

WORK EXPERIENCE

BardBox DigiGrowth LLP (Bizcivitas.com)	**May 2025 – July 2025**
Full-stack Engineer - Intern	*Gandhinagar, India*

Tech Stack: PostgreSQL, Supabase, Next.js (API Routes, ISR/SSG), Socket.IO, GitHub Actions, Fastlane, Vercel, React Native CLI, React Query, Quill.js

- Architected an **event-reactive monolithic** system with **Next.js hybrid rendering (PPR + ISR + SSR)** and **CQRS-inspired backend**, **capturing UTM-driven** analytics and user interactions for real-time content and marketing insights
- **Designed optimized PostgreSQL schemas** for **CMS**, **audits**, and **UTM Logging based traffic analytics**, significantly **scaling query throughput** and **write efficiency**.
- Built a **payment pipeline** by securing Razorpay with signature based verification and secure REST API with automated WhatsApp receipts service routes.
- Automated **event state transitions** via Postgres triggers and Supabase cron jobs. optimized slug-generation triggers for blogs, team members, and events to ensure uniqueness and low-latency indexing.
- Built a **Event management module** with REST APIs for onboarding, verification, and filter-wise segregation. integrated Twilio + WhatsApp for attendee authentication, messaging, and admin workflows.

PROJECTS

Three21 | *GitHub* | *Live*
Tech Stack: Three.js, React-Three-Fiber, IndexedDB, Next.js, WebGL, Gemini AI, Vercel AI SDK, FBX/GLTF
- Engineered a **hierarchical 3D mesh traversal** using BFS with layer-wise stacks, supporting upto **20M triangles / 15M vertices** and real-time Three.js rendering.
- Incorporated real-time 3D **model evaluation** ai-bot interfaces and generative multimodal inference using **Vercel AI SDK and Gemini 2.5 Flash**.
- Optimized client-side memory and rendering with IndexedDB caching and chat storage.

CoupleBoards | *GitHub* | *Live*
Tech Stack: Vite.js, Express.js, Node.js, Docker, NGINX, Google Cloud Run, Redux, GSAP, Framer Motion, Axios, ImgBB API, Worker Threads
- Built a **multi-batch async image upload system** with worker threads and Redux for efficient media handling.
- Implemented **NGINX reverse proxy** for routing across microservices, ensuring modularity and scalability.
- Containerized microservices with **Docker + Google Cloud Run**, enabling independent deployment and auto-scaling upto 100 individual pods.

LEADERSHIP & RESPONSIBILITIES

Technical Committee, IIITV	*President / General Secretary*	**July 2024 – May 2025**

- Organized IIITV's first inter-tech-fest with **3500+ footfall**, leading a **40+ member team** across **17+ events**, securing **Rs. 3.54L sponsorships** and distributing **Rs. 40L+ in prizes**.

ACHIEVEMENTS

Research Contribution	*ICVARS Conference*	Link	**June 2025**

- ICVARS 2025 accepted research paper on **Mixed Reality LEGO vs. Physical LEGO**, highlighting **cognitive, emotional, and motor advantages**.