

YASH THORAT

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SKILLS

Frontend | Next.js • React • TypeScript • JavaScript • Three.js • Zustand • Tailwind CSS • HTML5 • CSS3
Backend & DB | Node.js • Express.js • RESTful API • AWS • PostgreSQL • Supabase • Prisma • WebSockets
AI & ML | RAG Architectures • LLM Fine-Tuning • Deep Learning • PyTorch • TensorFlow • Pandas • OpenCV
Programming Languages | C++ (Advanced DSA, Competitive Programming) • Python (Async IO, CLI)
Tools & Platforms | Linux • Git & GitHub • Docker • Vercel • Netlify • Vite • Claude Code • Figma

EXPERIENCE

Freelance *Full-Stack Developer* Dec 2022 - May 2026

- Secured **20+** global clients via **Discord** and local networks, building **web platforms** using **Next.js** and **AWS** that compressed production release cycles by **40%**.
- Boosted database throughput by **150%** across concurrent full-stack applications by restructuring **PostgreSQL** indexes, optimizing complex **Prisma** queries, and tuning data access layers.
- Developed **Python-based** semantic **search** and **AI** recommendation engines, integrating them with custom **React** frontends to boost rolling user retention by **22%** across **10+** client platforms.
- Reduced API response latency by **35%** across **Node.js/Express** backends by implementing connection pooling on Supabase **PostgreSQL** databases and streamlining middleware execution chains.

PROJECTS

Nodomo.ai ↗ *Local-first visual canvas for serverless AI workflows* March 2026 - May 2026

- Built a browser-native visual canvas using **Next.js** and **@xyflow/react**, rendering an autonomous **AI cursor** to auto-build **workflows**, reducing setup times by **80%**.
- Accelerated workflow execution by **45%** with **sub-1ms** overhead by designing an **adjacency** compiler that leverages **Kahn's topological sort** and **DFS** to run parallel execution batches.
- Cut LLM prompt token costs by **60-80%** by designing a custom **Hierarchical Context Parsing Tree** (HCPT) algorithm that selectively compresses raw node **schemas** for AI agent loops.

LearnRun.ai ↗ *Gamified 3D WebGL platform for study materials* Oct 2025 - Jan 2026

- Created a **procedural 3D** gaming engine with **Next.js 16** and **Three.js**, transforming user PDFs into **endless runners** to increase study material completion rates by **35%**.
- Optimized prompt parsing to **sub-millisecond execution** via **Groq LPUs** and **Llama 3.3**, compiling textbook uploads into schema-validated **JSON** curriculum paths with **96%** parse accuracy.
- Developed a custom **60Hz physics** engine with **Euler integration**, decoupling physics calculations from the **render loop** to maintain a locked **60 FPS** WebGL gameplay environment with zero lag.

Pandora Club ↗ *Centralized developer community platform optimizing resource delivery* Dec 2025 - Jan 2026

- Released a mobile-first portal via **Next.js 16** and **Supabase**, scaling to **400+ members** in **7 days** to become the **campus's biggest** tech club pulling live events feeds.
- Implemented an asset-streaming layer utilizing the **Google Drive API** to dynamically serve notes and interactive **MCQs** to campus students, cutting load latency by **40%**.
- Designed an admin dashboard with multi-threaded **CSV validation** routines, automating bulk user onboarding in under **5 seconds** with zero database integrity issues.

EDUCATION

B.Tech in Computer Engineering | 2022 - 2026 | **CGPA - 7.84**

Shri Shivaji Vidya Prasarak Sanstha's Bapusaheb Shivajirao Deore College Of Engineering, Dhule

Senior Secondary (CBSE XII) | Kendriya Vidyalaya, Dhule | Science with Computer Science | 2021 | **73%**

Secondary (CBSE X) | Kendriya Vidyalaya, Dhule | 2019 | **80.6%**

ACHIEVEMENTS

- LeetCode: **Top 1%** profile, **1727** rating, **1000+** solved ↗
- VCs approached** me regarding one of my AI projects ↗
- Lead** of the **biggest tech club** on campus (Pandora) ↗
- Hackathon Winner** & **SIH 2025/DIPEX 2026** finalist ↗
- AWS Certified** Cloud Foundations **credential** holder ↗
- Created **16+** full-stack and **AI projects** on GitHub ↗