

Avinav Priyadarshi

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Education

SRM University KTR <i>B.Tech in Computer Science Engineering</i>	Chennai 2028
Amicus International School <i>class 12th, CBSE</i>	Gujarat 2024

Personal Projects

Luxe E-Commerce Platform Live Demo Github link	December 2025
<ul style="list-style-type: none">Architected a multi-vendor marketplace using Next.js 15 and TypeScript, supporting 3 user roles with secure NextAuth.js and a Seller Dashboard optimized by Cloudinary to reduce latency by 40%.Integrated Razorpay and Stripe payments with a visual order tracking timeline, achieving a 99% Lighthouse performance score through a responsive Tailwind CSS 4 interface.	
System Service Host - Privacy Browser Github link	November 2025
<ul style="list-style-type: none">Engineered a stealth-focused browser using .NET 9.0 and low-level Windows User32 APIs, leveraging WDA_EXCLUDEFROMCAPTURE to bypass screen recording detection.Created a "Camo Mode" using runtime JavaScript injection and a background Process Radar algorithm to monitor system threads and manage window visibility.	
3D Interactive Portfolio Live Demo Github link	November 2025
<ul style="list-style-type: none">Built an immersive 3D web experience using React, TypeScript, and Three.js, harnessing Vite for optimized production assets and high-performance rendering.Enforced strict ESLint type-aware linting and deployed on Vercel, ensuring code scalability and smooth animations across devices.	
Trigger Tracker - 2D Space Shooter Live Demo Github link	October 2025
<ul style="list-style-type: none">Constructed a 2D game engine using Java Swing and custom Multithreading, establishing a game loop that maintains 60 FPS alongside real-time SQLite data persistence.Applied Factory and Singleton design patterns to manage algorithmic enemy spawning and collision detection, creating a robust in-game economy and leaderboard system.	
Fish Rescue - Ocean Conservation Game Live Demo Github link	August 2024
<ul style="list-style-type: none">Developed an immersive endless runner using Unity Engine and C#, scripting a procedural generation algorithm for infinite background scrolling and randomized obstacle spawning.Integrated Object Pooling patterns to optimize memory allocation, maintaining a stable 60 FPS on WebGL builds while employing Unity's 2D Pixel Perfect package.	

Technical Skills and Interests

Languages: Java, C++, C#, TypeScript, JavaScript, Python, SQL, C, HTML/CSS
Web Technologies: Next.js, React.js, Node.js, Express.js, Three.js, Tailwind CSS, Zustand, NextAuth.js
Game & Systems: Unity Engine, .NET 9.0, Java Swing, Windows User32 API, Multithreading, WebGL
Databases & Tools: MongoDB, SQLite, Mongoose, Git, GitHub, Vercel, Vite, Cloudinary, Postman
Areas of Interest: Game Development, Full Stack Architecture, System Programming, High-Performance Computing

Certifications & Achievements

Unity Junior Programmer Unity Technologies Verify Credential	Issued 2025
<ul style="list-style-type: none">Earned industry-recognized certification validating proficiency in C# scripting, game physics, API integration, and performance optimization within the Unity Editor.	
IBM Cloud Essentials IBM Verify Credential	Issued 2025
<ul style="list-style-type: none">Validated foundational knowledge of Cloud Computing service models (IaaS, PaaS, SaaS) and deployment strategies for enterprise-grade applications.	
NPTEL Online Certification - Programming In Java IIT Kharagpur Verify Credential	Issued Oct 2025
<ul style="list-style-type: none">Achieved Elite certification status (Score: 65%) in a rigorous 12-week curriculum, demonstrating mastery of OOP, Multithreading, and Exception Handling.	