

Abhinav Kuchhal

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EDUCATION

Manipal University Jaipur <i>Bachelor of Technology in Computer & Communication Engineering</i>	Sep. 2023 – Jun. 2027
	7.71 CGPA
Delhi Public School, Roorkee <i>Class XII (CBSE)</i>	Apr. 2022 – Mar. 2023
	77.0%
Wynberg-Allen School, Mussoorie <i>Class X (ICSE)</i>	Apr. 2020 – Mar. 2021
	81.3%

PROJECTS

Retro OS	os-retro.vercel.app
Built a browser-based Operating System simulating 8+ native applications (Terminal, Calculator, Mail, etc.) with a draggable window manager. Optimized DOM manipulation to ensure 60 FPS performance across devices.	
Flappy Bird AI	ai-flappy-bird.vercel.app

Engineered a Neuro-evolutionary algorithm with a max population size of **10,000 units**. The AI achieves game mastery within **10 generations**, consistently scoring **10,000+** points without human intervention.

WORK EXPERIENCE

Independent Researcher — Stealth Startup (Remote)	Nov. 2025 – Present
Conducting market analysis on 5+ competitor platforms to identify feature gaps. Interviewed 20 potential users to validate problem hypotheses, resulting in a scoped MVP roadmap with 3 core differentiators .	
Social Media Manager and Web Dev Intern — Walkins (Remote)	Jun. 2025 – Present
– Spearheaded digital outreach strategies, resulting in a 40% increase in organic engagement across LinkedIn and Instagram within 3 months.	
– Optimized website frontend assets, reducing page load latency by 25% and improving Lighthouse performance scores.	
– Managed a consistent content calendar, delivering 3+ high-quality posts weekly to support brand growth.	

Co-Founder — Cupertino Focus (Bangalore)	Jan. 2024 – Aug. 2024
Co-founded an agency with a team, developing Figma designs for 5+ clients . Provided app ideas, designs, and prototypes for client app concepts.	

TECHNICAL SKILLS

Languages	JavaScript, TypeScript, Python, Java, C, HTML, CSS
Frameworks & Libraries	React, Next.js, Node.js
Infrastructure & Database	Git, Docker, Kubernetes, Postgres

PUBLICATIONS

Making ViTs Practical: Efficient Designs and Edge Deployment Strategies 2025

First Author — Manipal University Jaipur — Unpublished. Authored a review paper addressing the high computational and memory costs of deploying Vision Transformers (ViTs) on resource-constrained edge devices.