

# Abhinav Kuchhal

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## EDUCATION

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

## PROJECTS

<b>Retro OS</b>	<a href="https://os-retro.vercel.app">os-retro.vercel.app</a>
Built a browser-based Operating System simulating <b>8+ native applications</b> (Terminal, Calculator, Mail, etc.) with a draggable window manager. Optimized DOM manipulation to ensure <b>60 FPS</b> performance across devices.	
<b>Flappy Bird AI</b>	<a href="https://ai-flappy-bird.vercel.app">ai-flappy-bird.vercel.app</a>
Engineered a Neuro-evolutionary algorithm with a max population size of <b>10,000 units</b> . The AI achieves game mastery within <b>10 generations</b> , consistently scoring <b>10,000+</b> points without human intervention.	

## WORK EXPERIENCE

<b>Independent Researcher — Stealth Startup (Remote)</b>	Nov. 2025 – Present
Conducting market analysis on <b>5+ competitor platforms</b> to identify feature gaps. Interviewed <b>20 potential users</b> to validate problem hypotheses, resulting in a scoped MVP roadmap with <b>3 core differentiators</b> .	
<b>Social Media Manager and Web Dev Intern — Walkins (Remote)</b>	Jun. 2025 – Present
<ul style="list-style-type: none"><li>– Spearheaded digital outreach strategies, resulting in a <b>40% increase</b> in organic engagement across LinkedIn and Instagram within 3 months.</li><li>– Optimized website frontend assets, reducing page load latency by <b>25%</b> and improving Lighthouse performance scores.</li><li>– Managed a consistent content calendar, delivering <b>3+ high-quality posts weekly</b> to support brand growth.</li></ul>	
<b>Co-Founder — Cupertino Focus (Bangalore)</b>	Jan. 2024 – Aug. 2024
Co-founded an agency with a team, developing Figma designs for <b>5+ clients</b> . 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

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### **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.