

# Abhinav Kuchhal

Frontend Developer & AI Engineer



## Contact

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- [Linkedin Profile](#)
- [Github Profile](#)

## Address

### Permanent:

Piyush Kuchhal & Associates  
425/1, Basant Vihar  
Roorkee, Uttarakhand

### Present:

Manipal University  
Dahmi Kalan  
Jaipur, Rajasthan

## SUMMARY

Frontend Engineer specializing in React and modern web technologies. I leverage cutting-edge AI tools to accelerate development and enhance productivity, while continuously expanding into full-stack development. Passionate about building fast, intuitive, and design-forward user experiences.

## WORK EXPERIENCE

Present	<b>Independent Researcher</b> STEALTH STARTUP · Remote 🌐
Nov 2025	<ul style="list-style-type: none"><li>Conducted market analysis across 5+ competitor platforms</li><li>Identified feature gaps</li><li>Interviewed 20 prospective users</li><li>Validated core problem statements</li><li>Shaped an MVP roadmap</li><li>Defined 3 key differentiators</li></ul>
Aug 2025	<b>Co-Founder</b> CUPERTINO Focus · Delhi 🌐
Jan 2025	<ul style="list-style-type: none"><li>Co-founded a product-focused agency</li><li>Delivered Figma-based designs and interactive prototypes</li><li>Worked with 5+ clients</li><li>Led ideation and UX flows</li><li>Performed early product validation for mobile applications</li></ul>

## PROJECTS

Web App	<b>Retro OS</b> <a href="#">LINK</a> <ul style="list-style-type: none"><li>Built a browser-based operating system</li><li>Simulates 10+ native applications (Calculator, Notepad, etc.)</li><li>Includes a draggable window manager</li><li>Optimized DOM operations</li><li>Maintains 60 FPS performance across devices</li></ul>
Web App	<b>Flappy Bird AI</b> <a href="#">LINK</a> <ul style="list-style-type: none"><li>Designed a neuro-evolutionary algorithm</li><li>Population size up to 10,000 agents</li><li>AI achieves mastery in less than 15 generations</li><li>Consistently scores 10,000+ points autonomously</li></ul>

## TECHNICAL SKILLS

<b>Languages</b>	JavaScript, TypeScript, Python, Java, C, HTML, CSS
<b>Frameworks</b>	React, Next.js, Node.js
<b>Infrastructure</b>	Docker, Kubernetes, PostgreSQL

## PUBLICATIONS

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Unpublished

### Making ViTs Practical

FIRST AUTHOR · Manipal University 

#### Efficient Designs and Edge Deployment Strategies

Review paper. Focus: Reducing computational and memory overheads for deploying Vision Transformers (ViTs) on resource-constrained edge devices.

[Certificate Link](#)

## EDUCATION

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2023

### B.Tech in Computer & Communication Engineering

MANIPAL UNIVERSITY JAIPUR · CGPA: 7.71 

2027

Last updated February 12, 2026