Abhinav **Kuchhal**
An AI-applied Frontend Engineer

Personal

DOB: 1st Dec 2004
Father: Piyush Kuchhal
(Chartered Accountant)

Contact

✉ abhinavkuchhal7@gmail.com
📞 +91 7417399438
🌐 My Website
in Linkedin Profile
○ Github link

Address

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

Temporary:
Manipal University
Dahmi Kalan
Jaipur, Rajasthan

WORK EXPERIENCE

Present Nov 2025	**Independent Researcher** STEALTH STARTUP · Remote 📍 · Conducted market analysis across 5+ competitor platforms · Identified feature gaps · Interviewed 20 prospective users · Validated core problem statements · Shaped an MVP roadmap · Defined 3 key differentiators
Aug 2025 Jan 2025	**Co-Founder** CUPERTINO FOCUS · Delhi 📍 · Co-founded a product-focused agency · Delivered Figma-based designs and interactive prototypes · Worked with 5+ clients · Led ideation and UX flows · Performed early product validation for mobile applications

PROJECTS

Web App	**Retro OS** LINK · 📍 · Built a browser-based operating system · Simulates 10+ native applications (Calculator, Notepad, etc.) · Includes a draggable window manager · Optimized DOM operations · Maintains 60 FPS performance across devices
Web App	**Flappy Bird AI** LINK · 📍 · Designed a neuro-evolutionary algorithm · Population size up to 10,000 agents · AI achieves mastery in less than 15 generations · Consistently scores 10,000+ points autonomously

TECHNICAL SKILLS

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

PUBLICATIONS

Unpublished	**Making ViTs Practical** FIRST AUTHOR · Manipal University 📍 **Efficient Designs and Edge Deployment Strategies** Review paper.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

2023 | **B.Tech in Computer & Communication Engineering**
2027 | Manipal University Jaipur · CGPA: 7.71 📍

✉ abhinavkuchhal7@gmail.com   📞 +91 7417399438
🌐 My Website   in Linkedin Profile   ⦿ Github link