Abhinav **Kuchhal**
Frontend Developer & AI Engineer

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Piyush Kuchhal & Associates
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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 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Unpublished	**Making ViTs Practical**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 📍

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