

HIMANSHU ARORA

AI Entrepreneur & Engineer · MS in Computer Science (NC State, 2012)
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PROFILE

AI entrepreneur and engineer with an MS in CS from NC State University (3.7 GPA) and a BS from IIIT Hyderabad (3.6 GPA), with 7+ years at Microsoft across India and the US. Holds a US patent in software-aided animated storytelling (co-invented with Pranav Mistry, MIT Media Lab). Currently building Uprugg, an agentic AI workflow platform, with deep expertise in multi-agent system design, LLM orchestration, and autonomous task execution. Seeking an MS in AI to deepen research foundations and advance work in agentic AI.

EDUCATION

MS, Computer Science — NC State University, Raleigh, NC, USA · GPA 3.7/4.0 2010 – 2012
BS, Computer Science — IIIT Hyderabad, India · GPA 3.6/4.0 · Dean's Merit List (twice) 2003 – 2007

EXPERIENCE

Founder & CEO · Uprugg — Agentic AI Platform 2024 – Present

- Designing and building a multi-agent AI workflow platform for autonomous reasoning, planning, and execution of complex business tasks.
- Architecting agent pipelines using LangChain, LlamaIndex, and LLM tool-use frameworks; leading product strategy, system architecture, and engineering.

Software Engineer · Microsoft — Hyderabad, India & Redmond, WA, USA 2006 – 2010 · 2011 – 2013

- Core Windows 8 team: designed and implemented APIs for Windows 8 Web Services; built cloud-based e-learning platform on Azure targeting ~20M users.
- Led app engine development for Microsoft Surface (first India launch); built Bing-powered local search for GSM devices.
- Co-invented US-patented software for animated story creation with Pranav Mistry (MIT Media Lab); top 1% in Code4Bill all-India programming contest.

Student Programmer · Research Assistant · NC State University · IIIT Hyderabad 2006 – 2012

- Built multi-touch apps for the Perspective Pixel Wall at Hunt Library (NC State); developed Bluetooth/IR universal remote control system (IIIT Hyderabad).

Operations Manager · Family Business 2013 – 2024

- Led end-to-end operations, financial planning, and team management through a significant expansion phase; oversaw real estate and investment portfolio.

TECHNICAL SKILLS

Agentic AI & Multi-Agent Systems	LangChain / LlamaIndex / LLM Tool Use
Workflow Orchestration & Automation	Python · SQL · Full-Stack Web Development
System Design & Cloud Architecture	Prompt Engineering & RAG Pipelines

AWARDS & ACHIEVEMENTS

- IIT-JEE 2003: All-India Rank 3,199 — top 1.6% of 200,000+ candidates.
- US Patent: Software-Aided Creation of Animated Stories (co-invented with Pranav Mistry, MIT Media Lab).
- Top 1% — Code4Bill (Microsoft all-India contest); 5th place — company-wide software design competition; 2nd Best Poster — IEEE collegiate contest.
- 99.5th percentile — Senior Mathematics Olympiad, Delhi (2001).

Transcripts from NC State University and IIIT Hyderabad available upon request · Portfolio: uprugg.com