

Vaishnav V Nair

Applied AI & GenAI Solutions Architect · Creative Automation

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Applied AI solutions architect for creative production. I find the costly bottleneck, invent and validate the GenAI system that removes it, and hand engineering a spec that scales. **32,000+ AI-generated creatives live on Amazon listings run on my systems.**

EXPERIENCE

Pattern · Pattern Labs, applied R&D

Pune, India · Hybrid

Principal AI Architect, Content

Sep 2025 – Present

- Architected an end-to-end platform that generates complete **e-commerce product listing image stacks** (hero, feature, lifestyle), productized with AI Engineering: **79% lower creative cost per listing, 75% faster turnaround**, 70+ designers served.
- Invented a two-stage **label-accurate product generation** pipeline (LoRA, Qwen restoration): **100% label accuracy** in internal audits. **Patent application filed, named inventor.**
- Built a **multi-agent evaluation system** that reviews, ranks and flags creatives ahead of human review.
- Won **Innovation Cup 2025** with the Portal team. Led the live tech demo at **Accelerate Summit 2026** (Salt Lake City).

AI Art Director

Mar 2025 – Sep 2025

- Built the generation workflows and trained **product LoRA models** for label-accurate imagery. Defined the **capture specification for Portal Studio**, Pattern's robotic photography rig, from LoRA training evidence. **Promoted to Principal in six months.**

CodeArtX · Founder, freelance AI creative studio

Remote · Jun 2023 – Feb 2025

- AI product photography, artistic QR codes and animation for client briefs, including a national **Tata Neu campaign.**

CC Yard Technologies · Prompt Engineer, Founding R&D (Internship)

Bengaluru, India · Nov 2023 – May 2024

- Built GenAI content-production workflows and prompts, and led a content team producing high-volume daily content for the Stance app.

OPEN SOURCE

- va1 ComfyUI node pack** · Comfy Registry · **1.3K+ downloads** · registry.comfy.org/nodes/va1

SKILLS

Applied AI

Diffusion & multimodal generation · LoRA training · dataset design · model evaluation · segmentation · multi-agent systems · prompt engineering · MCP integration

Models & Tools

ComfyUI (custom nodes) · Flux · Stable Diffusion · Qwen · Nano Banana · MiniMax · SAM · RunPod · Claude Code · Codex · Gemini

Creative Tools

Photoshop · Premiere Pro · Canva · Blender & After Effects via MCP automation

EDUCATION & CERTIFICATIONS

Education

B.Tech, Computer Science & Engineering · Ahalia School of Engineering & Technology, Kerala · 2019–2023

Certifications

NVIDIA Deep Learning Institute: CUDA C/C++ · NVIDIA DLI: Fundamentals of Deep Learning