

# Nuwan Panditha · BlackNull

## AI Automation & Tooling Engineer

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### SUMMARY

I build AI systems and automations that do real work: a feature-complete multi-agent video app, deployed multi-workflow automation platforms, and AI media pipelines. I orchestrate frontier models (Claude, GPT-4o, Gemini) and benchmark them against each other to choose what actually works. Roughly 3 years building applied-AI and LLM systems, on top of 20 years of shipping software tools to a paying user base. I design with a human in the loop, not blind automation.

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### SELECTED AI WORK

#### Giga Production Studio · multi-agent video studio · 2026

- Conceived, designed, and built a desktop app where AI agents (research, writing, voice, direction, visuals, edit) run a guided pipeline with a human approval gate at every step, exporting a real, editable Premiere project.
- Model-agnostic LLM gateway (Claude, GPT-4o, Gemini, local); multi-writer room with quality gates; RAG memory that learns the user's taste. Python/FastAPI, React, Electron. Feature-complete v1.0.

#### Cadence · content-automation platform · 2024, live

- 12+ orchestrated n8n workflows behind a media brand I grew to 15,000 followers and monetized: multi-source ingestion, persona rewriting, Redis-backed idempotency, custom Flux LoRA image style, human review before every publish.

#### Automated Invoicing · document AI for a client · 2025

- Telegram bot to filed books: OCR, typed-schema extraction, tenant notification. OCR route chosen by a measured four-way benchmark (Mistral OCR, LlamaParse, Tesseract, GPT-4o vision); extraction with GPT-4.1; idempotent, refusal-aware.

#### The Memory Loop · AI media restoration · 2025, public channel

- Restores, upscales, and colorizes archival film to HD with documented per-clip model shoot-outs. Built and open-sourced the Duplicate Frame Remover (Node/FFmpeg): [github.com/BlackNull-Art/duplicate-frame-remover](https://github.com/BlackNull-Art/duplicate-frame-remover).

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### MODEL EVALUATION

Across four projects I define what good output means and compare models against it: a four-way OCR benchmark, upscaler and colorizer shoot-outs, a multi-model writers' room with quality gates. Currently formalizing this into a published, rubric-based evaluation.

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### CORE SKILLS

Multi-agent systems · LLM orchestration · prompt engineering · n8n automation · RAG and vector memory (Qdrant) · document AI and OCR · model evaluation · human-in-the-loop design · Python (FastAPI) · TypeScript (React) · APIs (REST, OAuth, webhooks) · ComfyUI and LoRA training · FFmpeg · Redis · Adobe UXP/CEP

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### EARLIER TRACK RECORD

#### BlackNull · best-selling Photoshop plugin author · 2014 to present

- 50,000+ sales on Envato Market; Realistic Embroidery Actions passed 20,000 alone. Coded plugins (JavaScript, ExtendScript, CEP and modern UXP) with custom UIs, shipped cross-version and cross-platform.
- Adobe collaboration 2018 to 2021: free tools featured and distributed through Adobe Create and Adobe Discover, plus a 2018 Adobe artist spotlight.

#### 3D/VFX Technical Director · Milan · 2006 to 2014

- Built pipeline tools and automations, managed a Debian render farm, supervised on-set VFX for advertising shoots.

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### RECOGNITION

50,000+ Envato Market sales · Adobe-distributed tools and artist spotlight · 1st place, Envato design contest 2017 · Behance: 29K followers, 606K project views