Justine Jude Cuevas

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Experience

AI Full-Stack Engineer June 2026 – Sep 2026
Interactive Content Digital s.r.o. Remote (contract)

- Took over an early prototype and built it into an AI video pipeline (Node.js, Express, BullMQ, Redis, FFmpeg) that turns a script into a 1080p narrated avatar video for under $0.90 per output minute across 47 real jobs.
- Wrote the script and scene-direction prompts on Claude Sonnet and Opus, built Claude Haiku vision guards that re-roll any image with stray text, impossible physics or the wrong subject, and an A/B eval CLI with blind scoring for prompt changes.
- Recalibrated the FFmpeg clip-quality guard, cutting flags on a 60-clip render from 57 to 5, all real defects.
- Fixed a frame-rounding drift that put scene cuts up to 430 ms late on 20-minute videos; cuts now land within half a frame.
- Added checkpoint resume, pre-spend guards and a multi-GPU RunPod worker (Python, FastAPI) for LTX-2 video, so a failed render resumes from its last finished phase instead of paying again.
- Shipped 840+ commits in 3 months with Claude Code under a custom guard hook, behind 90+ zero-cost CI gates on GitHub Actions.
- Built the SaaS layer with a second developer: Next.js and shadcn/ui console, Supabase Auth with row-level security across 40 migrations, team seats, a Stripe credit ledger, Docker and a GitHub Actions deploy workflow.

Graphic Designer June 2024 – Jan 2025
MicroPets General Santos City

- Produced promotional materials, product banners and social-media graphics for marketing campaigns using Adobe Photoshop and Canva.

Hackathons & Competitions

PropTech Hackathon | Filipino Homes *Top 5 Finalist*

- Built a web-based real-estate management prototype focused on accessibility and efficiency.

Byte Forward Hackathon | Converge ICT, 24-hour hackathon *Top 10, Mindanao Leg*

- Built a prototype to optimize transport of perishable goods from Mindanao to Luzon and cut spoilage.

Hack4Gov Capture the Flag | Cybersecurity CTF *Participant*

- Solved challenges across network security, web security, cryptography and incident response.

Projects

CooPilot: Machine Learning and IoT for Free-Range Poultry Egg Production Jan 2026 – Present
Thesis project, team of 4 | Random Forest, LSTM, Python, FastAPI, React, React Native (Expo), Raspberry Pi

- Built about 80% of the system as one of two developers: a FastAPI backend on Supabase Postgres, a role-based React web app and an Expo app with an offline egg log, fed by a Raspberry Pi edge API (co-built) that reads 5 sensors.
- Ported the team's LSTM forecast to NumPy, dropping TensorFlow (590 MB) from the API image; output matches Keras within 7e-8.
- Ran up to 5 Claude Code agents in parallel in git worktrees, merging 93 pull requests backed by 680+ backend tests.

QuizyLite: PDF Study App Nov 2025 – Present
Personal product, solo | Next.js, TypeScript, Express, MongoDB, Firebase

- Built a study app that turns PDF highlights into recall cards linked back to the exact page, with Firebase Auth, mistake review and progress tracking; live in private beta.

Technical Skills

AI & LLMs: Claude API (Anthropic), OpenAI API, embeddings, LLM vision, prompt engineering, LLM evals (A/B, blind review), generative AI media (ElevenLabs, HeyGen, LTX-2), ML model serving (LSTM in NumPy)
Agentic Development: Claude Code, agent skills, hooks, plugins, subagents, multi-agent workflows, agent loops, MCP servers, Codex CLI, Gemini CLI, Cursor, GitHub Copilot
Frontend: TypeScript, JavaScript, React, Next.js, React Native (Expo), Tailwind CSS, shadcn/ui, TanStack Query, Zod
Backend: Node.js, Express, Python, FastAPI, REST APIs, BullMQ, Stripe
Databases: PostgreSQL, pgvector, MySQL, Supabase (Auth, RLS), MongoDB, Redis, Firebase
DevOps & Tools: Docker, GitHub Actions (CI/CD), Vercel, RunPod GPU, FFmpeg, Playwright, Git, Linux, Raspberry Pi (IoT)
Design: Figma, Adobe Photoshop, Canva

Education

STI College General Santos City
Bachelor of Science in Computer Science Expected Graduation: 2027