Jhossman David Burgos Alvarez

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*Systems Engineer with real-world production experience, **passionate about the potential of Artificial Intelligence** to transform processes and solve complex problems. My engineering training gave me strong foundations in systems logic, data analysis, and modeling. I am seeking a professional environment where I can apply my **curiosity, analytical thinking** and **commitment** to continuous learning and mastering new AI tools. I am ready to contribute to the analysis, implementation, or support of innovative projects within a dynamic team and corporate environment.*

EDUCATION

Institution Universitaria Politécnico Grancolombiano — **Medellín, Colombia**
Systems Engineering — *August 2022 – 2026*

- Participated in collaborative software and robotics projects.
- Recognized for innovative projects.

CertiProf — **Medellín, Colombia**
Certifications & Complementary Courses Design — *June 2024*
Sprint Professional Certification - DSPC™

Claude Code in Action - Anthropic

Learning Claude Code and MCP with GitHub integration. — **Medellín, Colombia**
February 2026

RESEARCH AND ACADEMIC PROJECTS

Institution Universitaria Politécnico Grancolombiano

- Development of robotics projects with Arduino, designing and programming robots from scratch.

Institution Universitaria Politécnico Grancolombiano — **Medellín, Colombia**
ACADEMIC PROJECTS AND TECHNICAL APPLICATIONS — *August 2025 – Present*

- Design and implementation of functional web pages for academic projects, applying markup (HTML), styling (CSS), and frontend development (JS, Next.js).

PROFESSIONAL EXPERIENCE

Club Promesas — AI Software Developer
Service Provider

- Design and implementation of software solutions for Club Promesas's CRM and digital ecosystem. Delivery of full-stack web modules presented to clients under the CAPE AI agency framework (currently formalizing).
- Key deliverables: MATHATLON (per-lap fundraising + Bold Payments), e-commerce Store, CRM application portal, Marketing Campaign module with Meta Ads + AI, and an inter-agent communication system via Google Drive.

Medellín, Colombia

Feb. 2026

Clínica Las Américas Auna
Intern — Clinical Solutions Area

- Provided support to the Clinical Solutions area, contributing to the analysis, management, and support of technology processes for clinical operations.
- Participated in identifying and tracking information system requirements used in the institution's clinical care workflows.
- Collaborated with multidisciplinary teams to optimize clinical information flows, applying systems engineering knowledge in a high-complexity healthcare environment.
- Stack: PHP 7.1, MySQL, HTML, CSS, Git. Module development on the institutional Matrix HIS system (legacy architecture).

Medellín, Colombia

Feb. 2026 – Aug. 2026

FEATURED PROJECTS

Fondo Bot — Automated AI Crypto Fund
Personal Product · In Simulation

- Built an automated crypto trading fund on Freqtrade (3 concurrent strategies with capital rotation every 3 days) with a Python risk-guardian enforcing tiered stop-loss thresholds (80/50/30%) and email alerts; includes a PHP monitoring panel with 2FA (TOTP), containerized with Docker and validated with 1-year backtesting before any live capital.
- Stack: Python, Freqtrade, Docker, PHP, SQLite, Binance API, TOTP.

Medellín, Colombia

Sep. 2026 – Present

CI/CD Pipeline & Self-Hosted QA Infrastructure
DevOps · Self-Hosted Server

- Repurposed a desktop PC into a Linux server running a self-hosted GitLab runner and designed a 3-stage CI/CD pipeline (build → test → deploy) with Dockerized jobs: PHPUnit/Pest tests on an isolated database, Laravel Pint style checks, and a manual-approval production deploy via rsync/SSH with masked secrets and CODEOWNERS review gating.
- Stack: GitLab CI/CD, Docker, PHP 8.3, Laravel, PHPUnit/Pest, Pint, SSH/rsync.

Medellín, Colombia

Oct. 2026

CRM Club Promesas — Full-Stack Digital Ecosystem

Web Platform · In Production

- Architected and delivered a complete CRM digital ecosystem for Club Promesas: member portal with role-based access, e-commerce store with inventory, Meta Ads campaign manager with AI-generated insights, and an inter-AI agent communication system via Google Drive — serving 200+ active club members.
- Stack: PHP, MySQL, SQLite, Tailwind CSS, Alpine.js, GSAP, n8n, Meta Ads API, Bold Payments, Groq AI.

Medellín, Colombia

Feb. 2026 – Present

SISCUP — Copa Internacional Promesas ERP

ERP · In Production

- Built the ERP that runs the Copa Internacional Promesas 2026 (80+ modules) plus a club portal: a delegation × category registration matrix, Bold payments synced via n8n and reconciled by accounting, a finance module (budget/income/expenses/contracts), and per-club statements.
- Stack: PHP, SQLite, MySQL, JavaScript, n8n, Bold Payments.

Medellín, Colombia

2026 – Present

Real-Time Call Translator

Local AI Tool · In Development

- Built an end-to-end real-time call translation pipeline achieving sub-500ms latency: Whisper (STT) → Ollama/Qwen2.5 (LLM) → XTTS voice cloning (TTS), running entirely on a local RTX 4050 6 GB GPU — zero cloud inference cost.
- Stack: Python, Whisper, Ollama, Qwen2.5, XTTS, VB-Cable.

Medellín, Colombia

Aug. 2025 – Present

AgentSprint — ReshapeX Hackathon

AI Marathon · EAFIT Medellín

- Developed a multi-agent anti-hallucination system for industrial catalogs within a 3.5-hour hackathon (teams of 3–4), grounding responses in a RAG vector database over the product catalog; solution received top jury scores for accuracy and reliability on domain-specific queries.
- Stack: Python, Gemini, Streamlit, RAG (vector DB), AI Agents.

Medellín, Colombia

Jul. 2026

Órbita Dashboard

Social Media Dashboard · In Production

- Built a 12-section social media intelligence platform for Instagram + TikTok powered by Groq LLM for AI content analysis and editorial calendar generation; automated weekly reporting, reducing manual analysis time by ~80%.
- Stack: PHP, SQLite, Tailwind CSS, Alpine.js, GSAP, Groq API.

Medellín, Colombia

Jun. 2026 – Present

Edunova

Educational Platform · Client Demo

- Architected a multi-role homeschooling platform with 4 AI modes (tutor, evaluator, content generator, assistant) supporting admin, teacher, student, and parent roles; AI content generation reduced teacher prep time by ~60% in pilot testing.
- Stack: PHP, SQLite, Tailwind CSS, Alpine.js, GSAP, Groq API.

Medellín, Colombia

May 2026 – Jun. 2026

MATHATLON — Club Promesas

Web Application · In Production

- Engineered a live endurance-race fundraising platform integrating Bold Payments API for per-lap sponsorship processing; system handled real-time scoreboard updates and payment confirmation with <2s latency under concurrent load.
- Stack: PHP, MySQL, SQLite, Tailwind CSS, Bold Payments.

Medellín, Colombia

Apr. 2026 – Present

Orbyn Lead Bot

AI Agent · Technical Test

- Built a WhatsApp NLP lead-qualification agent that automated prospect triage for Orbyn; scoring model reduced unqualified lead handling time and passed the company's production-readiness technical evaluation.
- Stack: Python, Flask, Groq API, Google Sheets API.

Medellín, Colombia

Jan. 2025 – Present

ProTaper — Employability Platform

Web Application · In Production

- Candidate and vacancy management platform with an evaluation pipeline, AI-powered candidate analysis that scores and ranks applicants against each role, detailed profiles, and a company admin panel.
- Stack: Laravel, PHP, MySQL, Tailwind CSS, Groq AI.

Medellín, Colombia

Aforo — Event Data Capture

Own Product · In Production

- Multi-tenant platform for event data capture via QR forms, per-event dashboard, and AI analysis. Built with privacy-by-design (habeas data). First client: Hotel Tequendama Medellín.
- Stack: PHP 8.3, SQLite, Tailwind CSS, Alpine.js, Generative AI.

Medellín, Colombia

Jun. 2026 – Present

Additional Web & Mobile Projects

suplementosequinosgm.co (e-commerce, live) · starmodel.com.co (modeling agency, live) · tommzon.com (catering, live) · Vanegas Studio (financial manager, live) · NestrFi MVP (Flutter fintech demo) · Maistro (private-chef marketplace demo) · Gadaiz. (mobile app, NDA)

SKILLS

- **Technical:**
  - **Programming Languages:** Python, PHP, Laravel, JavaScript, Node.js, Flutter, Dart, Tailwind CSS, HTML, CSS, MySQL, REST APIs, Git, n8n.
  - **Databases & SQL:** Relational database management (MySQL, SQLite).
  - **Web Development:** HTML, CSS.
  - **Automation & AI:** n8n, Claude Code, Groq API, Ollama, LLMs, RAG, AI Agents.
  - **Multimedia:** Video editing with Adobe After Effects and Sony Vegas. Photo editing and design with Adobe Photoshop.

- **Soft Skills:** teamwork, communication, problem-solving.

LANGUAGES

- English: Intermediate level (A2–B1), actively training to reach B2.