JUAN PABLO GONZALEZ CAMERA

Senior AI & Systems Engineer | Reliable Backend & Secure Integrations

San Juan Bautista, Paraguay | Available for remote international work
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PROFESSIONAL SUMMARY

Senior AI and systems engineer with 15+ years building, maintaining and hardening backend platforms, integrations and production web infrastructure for international clients. My foundation is backend delivery, security remediation and methodical production troubleshooting. In recent (2026) contract work I have applied it to LLM integrations and AI workflow architecture, and separately to SOC 2 readiness engineering for a backend platform. I turn ambiguous requirements into systems with explicit boundaries, validation, bounded retries, auditability and handoff documentation.

CORE COMPETENCIES

AI & LLM Systems: OpenAI, Anthropic Claude, Gemini; LLM APIs; RAG; embeddings; semantic retrieval; tool calling; agent workflows; MCP-based integrations; structured outputs; validation; prompt and cost controls.

Backend & APIs: Python, PHP, Java, JavaScript, TypeScript; REST APIs; Node.js, NestJS, Laravel, Spring Boot; asynchronous jobs; webhooks; integrations with databases and SaaS platforms.

Cloud & Platform: AWS (EC2, S3, Lambda, SQS, RDS, CloudWatch, Bedrock); Azure; Docker; Kubernetes; Terraform; Linux; CI/CD; deployment troubleshooting and operational hardening; GCP/BigQuery (local lab work, see Engineering Labs).

Data & Reliability: PostgreSQL, MySQL, MongoDB, Redis; schema design; migrations; indexing; queues; caching; monitoring; logs; incident analysis; backups and recovery; performance and failure-mode testing.

Security & Compliance: incident investigation and remediation; OWASP practices; secrets and access controls; PHI/PII handling controls; SOC 2 readiness backlogs and control-to-evidence mapping.

PROFESSIONAL EXPERIENCE

AI Media OS Newsroom Alpha | Contract Lead AI Engineer | Marc Ellis | 2026 | Remote

- Engaged to design and implement a 30-day functional alpha of an API-first business-news platform and reusable "Media OS".
- Designing a newsroom architecture that separates source intelligence, editorial workflows and publishing experiences.
- Defining specialized agent roles for news discovery, event intelligence, research, evidence-based verification, editorial decisions, journalism, standards/fact-checking and publishing/front-page prioritization.
- Design scope: authorized-source ingestion, entity resolution, event clustering, provenance tracking, conflicting-claim reconciliation and grounded article drafting, with structured outputs, validation gates, cost controls and human override points; working with Python, LLM APIs, RAG patterns, CI/CD and AI-assisted development workflows.

SOC 2 Readiness & Backend Security Consultant | Valdia / ValdiaHQ | 2026 | Remote

- Supported the technical SOC 2 readiness program for Valdia's backend platform, translating security and compliance requirements into an actionable engineering backlog.
- Reviewed backend architecture, authentication, database controls, logging, repository governance, CI/CD and infrastructure-related risks.
- Created and maintained a 57-item SOC 2 action backlog with priorities, owners, implementation status, evidence requirements and reviewer validation.
- Mapped technical controls to repository evidence, Probo control requirements and engineering deliverables, helping distinguish implemented controls from items requiring additional evidence.
- Defined practical remediation and evidence-collection steps involving Supabase Pro with point-in-time recovery, GitHub governance, CI validation, Trivy/security scanning, access controls and auditability.
- Validated the updated compliance workbook programmatically, ensuring unique control IDs, consistent statuses, reviewer updates and traceable change history.
- Coordinated technical findings and implementation decisions with engineering and business stakeholders, translating compliance requirements into concrete development tasks.

Founder & Lead Software Engineer | SolidScripts.io | 2010 – Present | Paraguay / Remote

- Independent engineering practice: I work directly with clients on backend reliability, security remediation and AI integrations, leading architecture, implementation, deployment, maintenance and technical handoff.
- Design production-oriented AI workflows that connect LLMs to APIs, databases, SaaS tools and controlled tools using structured inputs/outputs, validation, retries, timeouts, fallbacks, human review and observability.
- Build and troubleshoot web platforms and services across PHP, Python, JavaScript/TypeScript, Node.js, PostgreSQL/MySQL, AWS, Docker, Linux and CI/CD environments.
- Deliver scoped diagnosis, remediation and integration engagements for international clients via Upwork and direct contracts.

Selected client engagement — SaaS technical audit | November 2026

- Completed a scoped SaaS technical audit and delivered a structured assessment of the project's current state.
- Provided clear guidance and recommendations for next steps; client feedback on Upwork highlighted the usefulness and structure of the audit and the clarity of the guidance.

Senior Cybersecurity Developer | SharkGate Limited / onehoursitefix.com | March 2016 – September 2026 | Remote

- Maintained and hardened client web infrastructure, investigating security incidents, assessing vulnerabilities and implementing practical remediation across application and server layers.
- Diagnosed and resolved urgent production issues involving websites, servers, hosting environments, networking, access controls and application behaviour.
- Applied controlled-change practices, including backups, staged troubleshooting, rollback awareness and clear communication during time-sensitive incidents.
- Developed security-oriented tooling and operational procedures to reduce recurring website and infrastructure risks across a long-term client support environment.
- Worked independently in a remote, service-oriented environment where reliability, response time, secure handling and accurate technical communication were essential.

Contract Software Engineer — TAGD AI / Strive4 LLC | 2026 | Remote

- Worked directly with the client on TAGD AI, a production-oriented AI platform involving OpenAI integrations, AWS infrastructure, healthcare-oriented data controls and UAT/production troubleshooting.
- Supported the platform through iterative diagnosis and release validation, addressing issues such as API behavior, rate limits, incomplete responses and environment-specific defects while preserving client-controlled infrastructure and access boundaries.
- Implemented and validated practical security and compliance changes, including data-handling controls, environment updates, MFA-related fixes, operational debugging and documented coordination with the client.

Collaborative Software Engineering — Ristorantino / PaxaPOS | Collaboration with Alejandro Vilar | Remote

- Collaborated with Alejandro Vilar on software and API-related work connected to the Ristorantino/PaxaPOS ecosystem, contributing from a practical backend and integration perspective.
- This collaboration is presented as project collaboration rather than direct employment; Alejandro has independently validated my REST/API-related skills on LinkedIn.

OPEN-SOURCE CONTRIBUTION & EARLIER PROJECTS

Open-source contributor — Merged PR #3754 | Microsoft Agent Governance Toolkit | 2026 | GitHub

- Contributed HIPAA-oriented healthcare-identifier detection and validation safeguards to the Python Agent OS package, covering contextual MRN, NPI and Health Plan ID detection, PHI/PII classification boundaries, Luhn validation and false-positive protections.
- Added regression tests, security audit documentation and cross-implementation compatibility fixes. The PR was reviewed by Microsoft maintainers, passed the repository's 135 automated CI checks and was merged into microsoft:main (merge commit 8a1838f).

Backend / Data Migration Engineer | Academic Information System — Universidad Nacional de Pilar, Faculty of Law | Earlier professional project | Paraguay

- Migrated academic records from Microsoft Access to PostgreSQL (schema, data migration and validation, triggers/procedures) and built a Gammu/Linux SMS service so students could query attendance percentages and exam grades without smartphones.

Software Developer | Attendance Management System — Universidad Nacional de Pilar, Faculty of Applied Sciences | Earlier professional project | Paraguay

- Migrated attendance data from a fingerprint-reader system to MySQL and developed PHP logic to calculate absences and validate entry/exit records.

ENGINEERING LABS — *selected independent projects*

Independent portfolio projects using synthetic or controlled local fixtures; not client production deployments.

- **Creator Agent Reliability Lab:** TypeScript/Postgres workflow recovery, scoped context, validated drafts and save/reopen persistence, with simulated providers and reproducible before/after evaluation.
- **GHL Multi-Account Data Hub Lab:** TypeScript/PostgreSQL contact matching, field provenance and recoverable webhooks. GHL accounts/APIs are simulated; unknown destinations require review before writes and automatic contact creation is deferred.
- **LLM Code Evaluation Lab:** Python contract checks for idempotency, tenant authorization and retry jobs with evidence-backed scoring. Controlled fixtures, synthetic reviewer examples; no live LLM or untrusted-code sandbox.
- **Durable Integration Worker:** TypeScript at-least-once webhook processing, idempotency controls, bounded retries, dead letters and restart recovery in a local reference environment.
- **Web3 Backend Reliability Lab:** TypeScript/Solidity SIWE authentication and reorg/restart recovery with PostgreSQL, viem and Anvil. Local EVM only, no real funds/public-chain deployment; downstream effects simulated.
- **Legacy Web Hardening Lab:** Local Docker Compose PHP/Apache behind Nginx TLS, with backup verification and migration/rollback exercises. Independent reference, not a client deployment.

Full engineering-labs catalogue (solidscripts.io/en/engineering-labs)

EDUCATION

System Engineer — Universidad Católica | Feb 2000 – Dec 2006

Specialization in Higher Education Didactics — Uninorte | Jan 2021 – Dec 2021

Linux Essentials — UCSA | Jan 2022 – Jul 2022

CERTIFICATIONS & PROFESSIONAL RECOGNITION

- Cybersecurity Professional — SharkGate certification

LANGUAGES

Spanish: Native | English: Advanced professional working proficiency

PROFESSIONAL RECOMMENDATIONS

> *"Juan was one of the people I trusted most during his 10+ years at OHSF/SharkGate. He is exceptionally reliable and has a real gift for troubleshooting calmly, methodically and persistently".*

Jonathan Morrissey — CTO & Chief AI Officer

> *"Juan Pablo has been a tremendous asset for TAGD AI. His technical expertise is exactly what we needed when we could not find a reliable developer in our local market to handle platform maintenance and improvements. I tend to work in starts and stops, and I can always depend on him to fall right in with me when I send him a project. Day or night I can count on him to put in the work to get my projects done in a timely and efficient manner. We owe our success as a platform to the development work that Juan Pablo does for us."*

Daniel Sanford — Business Owner and Public Safety Professional | Direct collaboration on TAGD AI | November 9, 2026

Full recommendations: LinkedIn → Recommendations (linkedin.com/in/juan-pablo-gonzalez-camera-495ba523)