

Jarvis T. Jackson

AI / Automation Engineer

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SUMMARY

I build production systems that connect applied AI, reliable automation and real business operations, and I design them to fail safe. I've spent 19 years at USDA Rural Development underwriting federal telecom loans and grants (\$316M+ obligated). Since 2023 I have also co-led Global Automation Solutions, where I design, build and run a multi-tenant SaaS platform, AI agent pipelines and client automations. Open to full-time and contract roles.

SKILLS

Languages	Python, TypeScript, SQL
Platform	React 18 + Vite, Supabase / Postgres (row-level security), Deno edge functions, Vercel
AI	LLM agent pipelines, MCP, Gemini, local models via Ollama, prompt engineering
Integrations	Stripe, Twilio SMS/voice, GoHighLevel, Gmail and Meta APIs, SAM.gov, USAspending
Also	Salesforce, SharePoint, Zapier; computational geometry (trimesh, shapely), OpenSCAD, Blender

EXPERIENCE

Global Automation Solutions · Remote <i>Co-Founder & Chief Technology and Operations Officer</i>	2023 – Present
GAS OS, a multi-tenant SaaS platform. Designed and built the operating system the company runs its clients on: CRM and pipelines, projects with milestones, a branded portal for each organization, a support desk, a unified inbox, a voice agent and an online store. It's React/TypeScript on Supabase Postgres. Row-level security isolates every tenant, and it runs 80+ Deno edge functions and 360+ schema migrations. Subscription billing. Shipped Stripe billing at \$25/month per app or \$150 for the bundle. Webhooks grant and revoke access automatically. In-house e-signature engine. Replaced a \$300/month vendor quote with a first-party engine: templates bound to CRM data, multi-party routing, and counter-offers stored as new revisions that never overwrite the old ones. The evidence layer is designed for UETA: a SHA-256 hash of the flattened PDF plus a hashed event manifest that administrators can't alter. Fail-safe CRM re-engagement engine for a modular-home builder, built in Python on GoHighLevel REST v2 and MCP. It worked 339 dormant leads, advanced 242 opportunities and sent ~290 SMS/email messages with zero double-sends. Safeguards: a kill switch, a do-not-disturb recheck at send time, idempotency keys, human approval gates and an append-only audit log. Federal contracting module. Turns a capability statement into a NAICS-matched SAM.gov opportunity feed, shows live USAspending data on which primes are winning, and uses Gemini to plan bids. Rebuilt from a prototype with API keys moved server-side, org-scoped security and per-user rate limits. Multi-agent content pipeline. A local model drafts, a critic agent grades each draft against brand rules and rewrites or rejects it, and a hosted model takes over when the local one fails. It publishes to 4 social channels on schedule, with a Telegram command channel and a Flask ops dashboard. 3D design-to-manufacture pipeline. Python computational geometry turns artwork into multi-color printable models, and a headless slicer check blocks any file with warnings. It has produced 163 models, sold through a live online store at 80%+ margins. - Also run contracts, sales, financial operations (AP/AR, invoicing, reconciliation), hiring and brand standards.	

USDA Rural Development · Washington, DC (Remote)

May 2007 – Present

Financial Loan and Business Specialist, Telecommunications Division (GS-13)

Financial analysis and loan processing

- Underwrote rural telecommunications loans and assessed business risk, obligating \$316,496,000 in federal loan funds (through April 2025).
- Reviewed and processed Distance Learning and Telemedicine and Community Connect grants totaling more than \$150 million.
- Assessed borrower risk through debt-service coverage, net worth and sensitivity analyses. Ran compliance reviews before advancing loan funds.

Process improvement and automation

- Redesigned loan and grant review procedures with workflow automation, cutting processing time by 75% while keeping them compliant.
- Built Salesforce and SharePoint workflows to track reviews and aggregate data across 25 loans and 100 grants.
- Condensed 35+ page approval summaries into synopses under 15 pages, which sped up the approval committee's evaluations.

Leadership

- Supervised in the Loan Origination and Approval Division, and trained 20 new employees on Rural Development financing processes.

EDUCATION & LICENSES

North Carolina A&T State University, Greensboro, NC. B.S. Business Finance, *magna cum laude*

Licensed Realtor: Washington DC, Maryland and Virginia