

Mauricio Ventura

AI Systems Builder

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📄 Summary

Self-taught AI builder with hands-on experience designing **local-first LLM systems**, structured memory pipelines, and modular workflow orchestration. Comfortable moving between **system architecture**, prompt chaining, and real-time automation, using tools like Python, Docker, Gradio, and n8n. My focus is on designing systems that think with memory and adapt to users.

📁 Projects

Autonomous Memory Architecture – Local LLM Pipeline, Ongoing
Structured log-to-memory system for local LLM context injection
- Building a modular AI memory system that parses **.json** and **.md** logs from daily reflections and activity streams. Core scripts (**memory_parser.py**, **memory_reader.py**) format and inject long-term memory into locally hosted LLMs. Integrated with **Gradio** for live prompt testing and **Text WebUI** for model orchestration. Containerized with Docker and extended using n8n for workflow automation.

🧠 Technical Skills

- Languages & Automation — Python (scripts, automation, parsing) | Bash | Markdown | JSON
- Dev & AI Tools — Text-generation-webui | LM Studio | Docker | VS Code | Open Web UI | n8n | Gradio | Git
- Systems & Platforms — Windows | Pop! OS (Linux) | BIOS/UEFI tuning | Intel/Nvidia optimization
- LLM Ecosystem — OpenAI API | Ollama | Local LLM integration | Prompt injection | Context chaining
- Hardware Expertise — Custom PC builds | VRAM/CPU tuning | GPU overclocking | System troubleshooting

📁 Experience Summary

Diverse experience in technical operations, remote troubleshooting, and systems leadership across logistics and support roles.

- Allen Flavors, Operations Lead & Tech Support** 11/2023 – Present | Plainfield, NJ
- Managed high-volume ERP system (200+ orders/month) with near-perfect accuracy
- Trained staff on new system workflows, improving operational efficiency and reducing onboarding time
- Provided frontline technical support (hardware, scanner, software) across production floor
- Maintained FIFO inventory logic; resolved logistical errors under pressure
- Love Pallet Co, Team Lead, Forklift Ops & Process Coordination** 02/2022 – 11/2023 | Bloomsbury, NJ
- Led 5–7 warehouse techs; delegated workflows and monitored daily throughput
- Designed basic tracking system for inventory/repair records
- Ensured OSHA compliance and internal safety process enforcement
- Bi Worldwide, Remote Support Specialist** 09/2021 – 06/2022 | Remote
- Resolved 60+ user tickets daily across remote channels (chat, Zoom, email)
- Led troubleshooting sessions for system/software issues across departments
- Authored internal documentation, reducing response time by 60%

🎓 Education

- Full Sail University, B.A. in Game Art** 2021 – 2023 | Online
Studied 3D pipelines using Maya, Blender, and Substance Painter. Developed a strong eye for design systems, & modular environments.
- Abraham Clark High School, High School Diploma** 2013 – 2017 | NJ
Graduated with a 3.3 GPA, and was enrolled in ROTC for two and half years.

★ Key Strengths

- **Self-taught AI systems builder** - with a strong drive for experimentation, design, and architectural thinking
- **Highly adaptable** - with a background that spans logistics, technical support, and full-stack system integration
- **Fluent communicator** - in both English and Spanish, clear, calm, and process-oriented under pressure
- **Natural systems thinker** - creates maps, routines, and documentation to scale personal and team workflows
- **Discipline-first mindset** - driven by solo research, continuous tool upgrades, and long-term system iteration
- **Command of prompt design & local LLMs** - builds and tests real-world flows using Capybara, Hermes, and automation chains

★ Additional Info

- Certifications** - (Forklift Operator License, Microsoft Office (Excel, Word, PowerPoint))
- Independent Projects** -(Built a **local AI LLM** using Python, Gradio, and LLMs (huggingface), focused on privacy-first, and self-hosted tools)