

CARLOS EDUARDO RUIZ BUSTILLO

AI Engineer | Systems Engineer

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PROFESSIONAL PROFILE

Systems Engineer and Artificial Intelligence Engineer specialized in Document Intelligence solutions and end-to-end full-stack development. Solid experience designing and implementing enterprise RAG architectures, OCR workflows, batch processing, MCP interfaces, and LLM gateway orchestration. Focused on turning cloud infrastructure and language models into scalable pipelines for the ingestion and structured extraction of business-critical documents.

TECHNICAL SKILLS

AI and Document Intelligence: RAG pipelines, OCR, structured data extraction, document ingestion and processing, Model Context Protocol (MCP), LLM gateways, compute-fabric, LangChain, Weaviate, vector databases (pgvector).

Languages and Frameworks: Python, TypeScript, JavaScript, C#, FastAPI, React, Next.js, Node.js.

Data and Scientific Computing: Pandas, NumPy, Matplotlib, Jupyter Notebooks, Conda.

Cloud and DevOps: AWS, Azure, Docker, Serverless Framework, PostgreSQL, MongoDB, Firebase, Git and GitHub.

Languages: Spanish (native), English (fluent).

PROFESSIONAL EXPERIENCE

Varium

November 2025 – Present

AI Document Intelligence Engineer

- Core full-stack engineer on the DMS (Document Management System) document processing pipeline, serving as the 2nd largest technical contributor to the main processor API.
- Design and optimization of end-to-end OCR workflows, RAG architectures, and batch processing pipelines for structured extraction and AI-driven document enrichment.
- Implementation of security mechanisms for handling protected documents, development of standardized MCP (Model Context Protocol) interfaces, and support for the compute-fabric and llm-gateway architecture.
- Client-facing role, ensuring value delivery from raw document ingestion through to production deployment.

GBM – Digital Solutions

April 2024 – October 2025

Software Specialist

- **Axon:** full-stack development of AI solutions with Python, FastAPI, Pandas, LangChain, and Weaviate for semantic indexing and advanced search.
- **Prompt Store:** development of scalable backend services in Python and FastAPI, integrating LangChain workflows, containerized with Docker and deployed on Microsoft Azure.
- **Soma:** design of a serverless backend architecture with Serverless Framework on AWS, connecting PostgreSQL and pgvector for high-performance vector search.

GBM2Grow – Digital Solutions (Digital Factory)

October 2023 – March 2024

Junior Developer

- **Training Roadmap:** development of web interfaces with JavaScript, React, .NET Framework, and SQL Server.
- **Unity Induction Game:** programming and development of an interactive corporate onboarding video game with Unity and C#.

La Voz Music

2022 – 2023

Frontend Developer

- Design and development of dynamic, responsive web interfaces using JavaScript, React, and Firebase.

EDUCATION

Universidad Americana (UAM)

Managua, Nicaragua

Systems Engineering

Graduated 2025

- **Leadership and projects:** founder of a technology education and training group focused on bringing digital and programming tools to students outside the Systems Engineering program.