Christopher B. Celaya

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OBJECTIVE: Industrial Technician transitioning into AI/ML Engineering, specializing in intelligent automation, predictive maintenance, and industrial data analytics. 11+ years of experience in manufacturing environments, troubleshooting electrical and mechanical systems, and optimizing operations. Passionate about leveraging AI to improve efficiency, reduce downtime, and enhance decision-making in smart factories.

Technical Projects (AI & Software)

Medchat AI (LLM for Healthcare)

- Developed an AI-powered chatbot for healthcare professionals to assist in diagnoses, leveraging Llama2 for medical query interpretation.
- Technologies used: **Python**, **Next.js**, **Tailwind CSS**, **Llama2**.

Minecraft AI Bot (Reinforcement Learning)

- Developed an AI bot that autonomously builds structures in Minecraft, reducing human effort by 90%.
- Trained using reinforcement learning on in-game data.
- Technologies used: **Python**, **JavaScript**, **Google Colab**, **Minecraft API**.

Gemini Pro Vision (Computer Vision & NLP)

- Built a chatbot with real-time vision and text-to-speech capabilities, enabling dynamic AI-powered interactions.
- Technologies used: **JavaScript**, **Next.js**, **Tailwind CSS**, **Gemini API**.

chriscelaya.com (Portfolio Website)

- Designed and developed a personal website showcasing AI projects, resume, and experience.
- Technologies used: **Next.js**, **JavaScript**, **Vercel**, **Supabase**.

Work Experience

T5 Data Centers

Critical Facilities Data Center Technician II   **Sept 2021 – June 2022**

- Maintained mission-critical data center infrastructure, ensuring 100% uptime.
- Supervised external contractors for adherence to critical facility work rules.
- Relevance to AI: Experience in infrastructure monitoring, automation, and large-scale system reliability.

CN Wire

Electro-Mechanic   **Jan 2018 – Sept 2021**

- Troubleshot and maintained industrial automation systems, including HMI panels and sensors.
- Optimized predictive maintenance strategies to improve equipment reliability.
- Relevance to AI: Exposure to sensor data, automation, and predictive analytics.

Schneider Electric

Wiring Technician — Quality Assurance   **May 2016 – Dec 2017**

- Enhanced low-voltage systems quality by 20% through rigorous testing.
- Conducted root cause analysis on 50+ defects monthly.
- Relevance to AI: Applied data-driven troubleshooting and quality control methodologies.

EDUCATION

Machine Learning & AI Self-Study, Self-Taught   **2022 – Present**
- Studying deep learning, reinforcement learning, LLMs, and hands-on projects.
- Working with OpenAI, Anthropic, Gemini, and HuggingFace APIs to build AI applications.
- Active in Github, Kaggle, and contributing to open-source ML projects.

Electrical Engineering (Attended), University of Texas at El Paso   **n.d.**
- Studies discontinued due to financial constraints, but continued AI/ML learning independently.

Computer Science (Attended), El Paso Community College   **n.d.**
- Relevant Coursework: Programming, Matrix Algebra, Advanced Object-Oriented Programming.

SKILLS

- **AI & Machine Learning:** Python, TensorFlow, PyTorch, OpenAI API, Reinforcement Learning, Computer Vision, Large Language Models (LLMs).
- **Software Development:** JavaScript, TypeScript, Next.js, React.js, Node.js, Tailwind CSS, PostgreSQL.
- **Data & Infrastructure:** SQL, MongoDB, Docker, Redis, Azure, AWS.
- **Industrial Systems & Automation:** CMMS, HMI, SCADA, Machine Vision, Predictive Maintenance.

CERTIFICATIONS & TOOLS

- **AI & ML Development:** CUDA, HuggingFace, Kaggle, Google Colab.
- **Cloud & DevOps:** Docker, AWS, Azure.
- **Hardware:** Trained AI models on NVIDIA H100s & A100s.