

Christopher CELAYA



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OBJECTIVE: Industrial Technician with expertise in 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. Excited about leveraging technology to improve efficiency, reduce downtime, and enhance decision-making in smart factories.

WORK EXPERIENCE

- T5 DATA CENTERS**
Critical Facilities Data Center Technician II **Sept 2021 - June 2022**
- Maintain and operate both critical and non-critical data center infrastructure, equipment, and systems.
 - Achieved 100% uptime for critical infrastructure by leading PM's on systems utilizing CMMS.
 - Supervise external contractors, ensuring adherence to critical facility workplace rules.
- CN WIRE**
Electro-Mechanic **Jan 2018 - Sept 2021**
- Enhanced equipment reliability through troubleshooting electrical systems, HMI panels, and sensors.
 - Maintain a number of cooling, compression and emulsion systems required for facility operations.
 - Install, maintain, and troubleshoot electrical components and equipment for process equipment.
- SCHNEIDER ELECTRIC**
Wiring Technician — Quality Assurance **May 2016 - Dec 2017**
- Improved quality by 20% by overseeing testing/assembly of electrical panels and resolving defects.
 - Interpret point-to-point diagrams, bill of materials, and wiring schematics.
 - Oversee testing and assembly of low voltage electronic products.
- DELFINGEN**
Maintenance Technician **Dec 2015 - Dec 2016**
- Manage maintenance on equipment, including extrusion, pneumatic, hydraulic, water, and electrical.
 - Carry out tasks including equipment repair, electrical troubleshooting, and preventative maintenance.
 - Determine and resolve issues with corrugated screws, cutters, pullers, and printing systems.
 - Complete additional duties such as welding, fabrication, including building maintenance.
- DAL-TILE**
Maintenance Technician III **Feb 2013 - Oct 2015**
- Install and maintain hydraulic press, electrical panels and mechanical components.
 - Acknowledge machine malfunctions, install electro-mechanical valves, and perform routine maintenance.
 - Carry out additional routine maintenance on raw material conveyors, dust, compression, and cooling systems.
 - Operate industrial hydraulic systems, serve oil changes, and routine die-block quality checks.
 - Manage materials processing and storage, including silos, conveyors, spray dryers, ball mills, and vibrating screens.

TECHNICAL PROJECTS

Medchat

AI/ML Medical LLM

- Developed a web application for healthcare professionals with accurate diagnoses.
- Technologies Used: **Python**, **Next.js**, **Tailwind CSS**

Minecraft AI Bot

LLM

- Trained LLM using real-world game data to build autonomously, reducing intervention by 95%.
- Technologies Used: **JavaScript**, **Python**, **Google Colab**, **Minecraft**, **Reinforcement Learning**

Gemini Pro Vision

AI/ML Computer Vision, Full-Stack

- Developed a chatbot with real-time vision and text-to-speech capabilities using machine vision.
- Technologies Used: **JavaScript**, **Next.js**, **Tailwind CSS**, and **Gemini API**

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Web Development

- Designed a personal portfolio website using Next.js. Features resume, experience, and projects.
- Technologies Used: **Next.js**, **JavaScript**, **Vercel**, and **Supabase**

Midi Saber

Game Development, VR, Web Development

- Created a MIDI-powered interface to generate beat maps for Beat Saber using a MIDI drum pad.
- Technologies Used: **JavaScript**, **Unity**, **Novation**, and **Beat Saber**

EDUCATION

Bachelor of Science in Electrical Engineering, University of Texas at El Paso

GPA: 3.5/4.0

- Focus in Fields and Devices - Incomplete

Bachelor of Science in Computer Science, El Paso Community College

GPA: 3.7/4.0

- Focus in Cyber Security - Incomplete

SKILLS

- **Software Development:** Python, C, JS, TS, Next.js, React.js, Tailwind, TensorFlow, Java, Pytorch
- **Databases & Tools:** Docker, SQL, MongoDB, PostgreSQL, Redis, Azure, AWS, Blockchain
- **Industrial Infrastructure:** Preventative Maintenance, CMMS, HMI, SCADA, Machine Vision
- **Leadership & Management:** Team Training, Workflow Optimization, Process Improvement
- **AI/ML Training & Development:** CUDA, HuggingFace, Kaggle, Google Colab
- **Hardware:** NVIDIA H100s & A100s for large language model training

CERTIFICATIONS

- NFPA 70E — Electrical Safety
- OSHA 10 — Construction Safety