

# Cristian Sanchez Arenas

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United States, Cincinnati, OH

GitHub: [crissarenas.github.io](https://crissarenas.github.io)

## SUMMARY

Senior Software and AI Engineer designing and deploying end-to-end systems that integrate data pipelines, AI workflows, and user-facing applications. Owns the full stack from APIs, orchestration, and CI/CD to secure, observable, and production ready systems with clear architecture and practical runbooks. Side projects include robotics prototypes and embedded systems using embedded Linux and C/C++ for device integration, sensor telemetry, and real time data flows.

## WORK EXPERIENCE

### FEG Investment Advisors

*Senior Data and AI Engineer*

Cincinnati, OH

Mar 2025 – Present

- Build and deploy AI/ML tools (LLMs, NLP, predictive models) for portfolio oversight, reducing manual work 35%.
- Develop production-grade pipelines (Python, SQL, Airflow) for analytics and model training.
- Develop GenAI solutions for automated portfolio commentary and market analysis using LLMs and NLP.
- Lead end-to-end development of internal portfolio systems and tools, built from scratch and scaled across users.
- Implement anomaly-detection models to identify unusual exposures, improving accuracy 80%.
- Apply secure development practices (access control, SIEM monitoring, endpoint protection) for all internal tools.
- Train junior analysts on AI, data engineering, and secure model deployment.

### Colliers

*Research Analyst (Data Scientist)*

Cincinnati, OH

Apr 2024 – Mar 2025

- Built LLM app for automated CRE insights, increasing output speed 4×.
- Created PySpark ETL pipelines processing 2M+ monthly data points; reduced reporting time 50%.
- Automated PDF/OCR ingestion with CV tools (OpenCV, Tesseract), saving ~20 hours/week.
- Embedded cybersecurity controls (audit logs, data-quality checks) in pipeline workflows.
- Delivered team workshops on AI automation and secure tool usage.

### ArLa Capital

*Senior Investment Associate*

Zurich, CH

Feb 2022 – Apr 2024

- Built automated reporting engine with audit-ready logs, cutting month-end close 45%.
- Developed ML-driven macro and allocation models to support investment decisions.
- Engineered secure APIs for data ingestion with NIST-aligned safeguards.

### Citi

*Investment & Product Analyst*

Mexico City

Jun 2020 – Feb 2022

- Developed Python-based automation tools for portfolio monitoring, increasing reporting efficiency by 22%
- Led the technical rollout of BlackRock Aladdin across Wealth Management & Private Banking, training 80+ investment professionals.

## EDUCATION

### University of Colorado Boulder, *College of Engineering and Applied Science*

Boulder, Co

*Master of Science in Computer Science*

Expected Aug 2027

- **Relevant coursework:** Artificial Intelligence (ML, DL, Gen AI, NLP), Robotics, Autonomous Systems, Cybersecurity
- Cumulative GPA: 4.0/4.0

### Escuela Bancaria y Comercial – EBC

*Bachelor of Science in Finance and Banking*

Mexico City

Class of 2020

- GPA: 3.8/4.0

## TECHNICAL SKILLS

**Languages:** Python, SQL, C++, Java, TypeScript

**AI:** ML, LLMs, NLP, Scikit-learn, Deep Learning, LangChain, Predictive Modeling

**DevSecOps:** SIEM analysis, incident response, endpoint protection, access control, vulnerability mitigation

**Data & Tools:** Pandas, NumPy, PySpark, Airflow, Git, Power BI, OpenCV, Aladdin

**Cloud & Infrastructure:** AWS, Azure, Docker, CI/CD, API Development