Cristian Sanchez Arenas

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SUMMARY

Senior Data 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.

WORK EXPERIENCE

FEG Investment Advisors   **Cincinnati, OH**
Senior Data and AI Engineer   *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   **Cincinnati, OH**
Research Analyst (Data Scientist)   *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   **Zurich, CH**
Senior Investment Associate   *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   **Mexico City**
Investment & Product Analyst   *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:** Data Structures & Algorithms, Machine Learning, Deep Learning, Generative AI, NLP, Networking and Cybersecurity
- Cumulative GPA**:** 4.0/4.0

Escuela Bancaria y Comercial – EBC   **Mexico City**
Bachelor of Science in Finance and Banking   *Class of 2020*
- GPA: 3.8/4.0

TECHNICAL SKILLS

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

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