

# Diego Estuar

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## Core Technical Skills

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**Programming & Analysis:** Python (pandas, NumPy), R, SQL, SAS, SPSS, Shell, TypeScript, Jest

**Data Management:** PostgreSQL, MySQL, Snowflake, MongoDB, Neo4j, ChromaDB, Prisma, Redis

**Cloud & DevOps:** AWS (EC2, S3, RDS), Docker, Jenkins, CI/CD, Linux, Airflow, PySpark

**Machine Learning & NLP:** scikit-learn, TensorFlow, PyTorch, NLTK, spaCy, HuggingFace, LangChain, RAG

**Visualization & BI:** Tableau, Power BI, matplotlib, seaborn, Excel (MOS Excel Expert)

**Process & Project:** Lean Six Sigma (LSS Black Belt), Agile / Scrum (Scrum Master I)

## Experience

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**Operations Analyst**, Cedars-Sinai

Jun 2024 – Present

- Directing performance improvement teams and clinical research projects, developing diagnostic dashboards in Tableau, and building scheduled ETL pipelines to inform executive strategy on clinic efficiency—awarded the OHE Fellowship for work on decreasing preoperative patient attrition.

**Research Fellow**, Gold House

Aug 2024 – Present

- Leading data-driven consulting research for the Entertainment & Media team; assisted with the development of the annual research publications Gold Paper and Gold Storybook, with a focus on industry adoption and applications of Artificial Intelligence.

**Research Fellow**, Children's Hospital Los Angeles

Apr 2024 – Aug 2024

- Architected a retrieval-augmented generation (RAG) system using LangChain, ChromaDB, and Llama 3.1, deployed on-prem to surface infection-control policies; automated knowledge retrieval and citation, enabling IPC staff to locate critical guidelines in seconds (vs. ~15 min manual search).

**Research Assistant, Marketing Analytics**, Loyola Marymount University

Jul 2023 – Aug 2024

- Modeled AI adoption curves in retail using Diffusion of Innovation, TAM, and Bass diffusion frameworks; produced literature reviews and econometric analysis supporting manuscripts published to *JBR* and *IJIM*.

**Research Assistant, Quantitative Finance**, Loyola Marymount University

Jan 2024 – May 2024

- Developed LSTM and GAN models in PyTorch to estimate efficient frontiers and simulate stress scenarios for diversified portfolios; curated a 15-year stock & ETF dataset via automated pipelines for model training.

## Projects

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**www.serplexity.com — Research Scientist**, Serplexity

Jun 2025 – Present

- Built an agency-grade software analytics platform for AI search visibility; TypeScript + Prisma/PostgreSQL + Redis/BullMQ backend; PydanticAI agents with swappable LLM adapters; CI/CD to AWS EC2.

**www.codeladder.io — Software Developer**, CodeLadder.io

Feb 2025 – Jul 2025

- Deployed a web-based DSA learning platform (React/TypeScript, Prisma/PostgreSQL) with Judge0 sandbox and containerized CI/CD on AWS (Docker, Jenkins).

## Education

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Ph.D., Information Systems & Technology — Claremont Graduate University '28

M.S., Data Science & Analytics — Claremont Graduate University '27

M.S., Business Analytics — Loyola Marymount University '24

B.A., Economics — Loyola Marymount University '23

B.B.A., Marketing Analytics — Loyola Marymount University '23