

Lazaro A. Valdez

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Education

University of South Florida

Bachelor of Science in Computer Science, GPA: 3.31/4.00

Tampa, FL

May 2028

Relevant Coursework: Data Structures & Algorithms, Computer Organization, Intro to Artificial Intelligence, Database Design

Experience

Data Engineering Extern, Breaking Games

June 2026 – Aug 2026

Extern

Remote

- **Designed a star schema** (dimension and fact tables) joining six disconnected Shopify and Meta exports, which drove a reorder recommendation across a 117-SKU catalog.
- **Built a standardized lookup table** that reduced 422 inconsistent raw values into one clean taxonomy, eliminating duplicated query logic across downstream reports.
- **Engineered a CTR/CPC/ROI framework** across 7 live ad campaigns and \$37,200 in spend, flagging one campaign with zero recorded results and freeing \$16,349 for reallocation.
- **Diagnosed a tracking gap** where 60% of the catalog generated 84% of revenue with zero pageview data, then built SQL-based bot detection to correct a 91.9% abandonment rate to 50.8%.

AI Automation Extern, Wayfair

April 2026 – June 2026

Extern

Remote

- **Automated a multi-hour competitive analysis** into a 15-20 minute n8n/JavaScript workflow across Amazon, Walmart, and Wayfair data, adding dual-path scrapers and OAuth-based Drive delivery
- **Built and shipped a 6-agent AI pipeline** (Gemini, Mistral) with single-responsibility prompts, JSON-output validation, and automated low-sample flagging, producing decision-ready reports with zero manual cleanup
- **Re-engineered an inherited, undocumented content agent**, diagnosing brand-voice and hallucination failures, fixing both via negative-constraint prompting, and documenting every root cause and fix
- **Delivered a 6-view category-manager dashboard** in under 60 seconds by engineering a Cheerio-based aggregator that parses upstream AI HTML reports instead of re-running LLMs

Data Analytics Extern, Beats by Dre

Oct 2025 – Dec 2025

Extern

Remote

- **Benchmarked Beats Pill (2024)** at 66.7% positive sentiment against 6 competitors across 324 competitor reviews, a 20.8-point gap below category leader UE Everboom (87.5%), by engineering a dual-method Python NLP pipeline applying TextBlob polarity thresholds and Gemini 2.5 Flash qualitative theme extraction
- **Identified that critical reviews drive consumer trust** more than 5-star reviews, measured by a -0.134 rating-to-helpfulness correlation across 4,000+ consumer survey rows, by computing a 4-variable Pandas correlation matrix spanning rating, review length, verification status, and helpfulness count

Projects

ResuStack AI | *Software Engineer* | Next.js, TypeScript, PostgreSQL

April 2026 – Present

- Building a full-stack application on Next.js App Router, pairing 13 type-safe server actions and 10 API routes with a 76-component TypeScript frontend
- Built an 18-model PostgreSQL schema (Prisma) to power a job-listing aggregation pipeline across 4 pluggable sources validated by a CI suite of 284 tests across 22 files
- Built a LinkedIn profile-extraction pipeline that converts exported profile PDFs into schema-validated structured data across 8 fields via LLM APIs, defending it against hallucination and prompt injection with strict verbatim-extraction prompting and fail-soft parsing
- Developed a RAG pipeline using pgvector for embedding storage and similarity search, including retrieval, retry and backoff logic, and structured output validation for resume-to-job matching

Technical Skills

Languages/Frameworks: Python, JavaScript, TypeScript, SQL, C/C++, Next.js, React

Data/AI: PostgreSQL, SQLite, Prisma, Vector Database, LLM APIs, RAG Pipelines, Dimensional Modeling

Libraries: pandas, NumPy, Matplotlib, Seaborn, TextBlob, Plotly, Pydantic, Cheerio

Tools: Git, Docker, CI/CD, n8n, REST APIs & OAuth, Tableau, Excel (Advanced)