

Angelo Francis Landiza

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Software Engineer Intern @ Morningstar · Full-Stack · Python · AWS · RAG & LLM Systems

EDUCATION

University of Illinois at Chicago

Bachelor of Science in Data Science, Computer Science Concentration.

Chicago, IL

Expected May 2028

EXPERIENCE

Software Engineer Intern

Morningstar Inc.

March 2026 - Present

Chicago, IL

- Architected auto-scaling AWS infrastructure using Python, AWS CDK, and ALB Fargate Service for a full-stack RAG chatbot, integrating DynamoDB for real-time user sessions and low-latency LLM context retrieval.
- Developed UI features for Illume 2.0, a modular RAG document extraction platform serving 2,000+ non-technical users across 5 global offices, building REST API endpoints to retrieve, trigger, and post pipeline data to S3 and DynamoDB in parallel with a DS backend team.
- Slashed data-collection turnaround from a ~5-week JSON build-and-test cycle to under a minute by replacing manual configuration with UI-driven pipeline setup across 1,000+ financial documents per workflow.
- Co-developed a proposed investment quality metric and built its prototype implementation, presenting to the CEO, CTO, and senior leadership; now in company-wide research for implementation.
- Engineered the core logic for a regression testing suite using AWS CDK and SQS to batch-queue pipeline runs, computing recall and F1 scores across variants to drive improvements.
- Retained for a fall-term extension, shipping platform features alongside a full course load.

Lead Summer Robotics Programming Intern

CPS Office of Computer Science

June 2025 - July 2025

Chicago, IL

- Directed a high school robotics internship, assigning 17 students to tasks optimizing FRC and FTC robot performance.
- Developed curriculum covering robotics programming, computer vision, and autonomous navigation.

Summer Robotics Programming Intern

CPS Office of Computer Science

June 2023 - July 2024

Chicago, IL

- Built Java software using the WPILib framework for an autonomous swerve drive FRC robot.
- Implemented a random maze generator and applied the A* algorithm to determine optimal solutions.
- Constructed a neural network from scratch in Python.

PROJECTS

Fitch Revenue Segment Extraction Platform

January 2026 - May 2026

- Engineered a retrieval-augmented segment extraction system that parses annual report PDFs, ranks revenue-relevant pages, sends structured context to an LLM, and validates extracted rows against strict Python schemas before analyst review.
- Designed the pipeline for single-document processing with horizontal scalability via ECS Fargate task parallelism, supporting CSV/XLSX/JSON export with approval-gated review.
- Partnered with three finance students to scope reporting requirements and presented the solution to company representatives.

Fully Autonomous FRC Robot

August 2022 - May 2024

- Trained a PyTorch reinforcement learning model for autonomous robot navigation, achieving a sub-2 second intake average.
- Engineered a custom OpenAI Gymnasium environment to simulate robot dynamics and sensor data for agent training.

ACTIVITIES & LEADERSHIP

High School FRC Programming Team

Team Lead and Mentor

August 2022 - June 2025

- Mentored 12 programmers on project protocols and best practices, managing code contributions through Git and in-person reviews. Developed simulations for fully autonomous and semi-autonomous FRC swerve drive systems.

SKILLS

Languages: Python, TypeScript, Java, C/C++, C#, Lua

Frameworks and Libraries: AWS CDK, PyTorch, TensorFlow, OpenCV, WPILib

Cloud and Infrastructure: AWS, DynamoDB, S3, SQS, ECS, ECR, ALB

Tools: Git, Jira, Bitbucket, Harness, Postman

Architectures and Methodologies: REST API, RAG, Agile (Scrum)