

Emiliano Saucedo Goldschmied

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Education

Iowa State University, Ames, IA

Bachelor of Science in Data Science

Aug 2021 – Dec 2025

GPA: 3.34 / 4.00

Certifications

AWS Certified Cloud Practitioner

Amazon Web Services

Mar 2026 – Mar 2029

Credential ID: 361159d418cf448abbd1e53b162e05cc

Projects

TIQ Fitness — AI-Powered iOS App

[App Store link](#)

2026

- Built and shipped a full-stack iOS fitness application solo, integrating GPT-4o-mini via Cloudflare Workers to generate personalized workout plans and autofill nutrition macros in real time.
- Implemented SwiftData persistence, RevenueCat subscription management, and end-to-end App Store deployment including privacy declarations, compliance, and review approval.

Job Market Forecasting Project (Time Series & Machine Learning)

[Project link](#)

2026

- Built a machine learning forecasting pipeline to predict unemployment trends using time-series features, including lag variables and rolling averages.
- Evaluated model performance using test MSE and translated results into clear visualizations to communicate trends and support data-driven insights.

Competitive Reinforcement Learning — Adversarial Policy Agent (Python)

[Project link](#)

2025

- Trained a policy-gradient reinforcement learning agent over 1,000 simulated episodes in a non-stationary adversarial environment.
- Engineered state representations and reward shaping to improve training stability and competitive performance under evaluation constraints.

Checkers Agent — Adversarial & Monte Carlo Search (Java)

[Project link](#)

2025

- Implemented a full Checkers-playing agent in Java, including legal move generation, multi-jump handling, and terminal state detection.
- Evaluated Alpha-Beta pruning and Monte Carlo Tree Search across multiple search depths and rollout budgets, analyzing decision-quality tradeoffs under computational constraints.

Financial Volatility Modeling Capstone Project

[Project link](#)

2025

- Built end-to-end ETL pipelines processing multi-year OHLCV and options datasets with millions of observations, storing outputs in partitioned Parquet for scalable analysis.
- Developed an interactive Streamlit dashboard with 3D visualizations to explore modeled volatility patterns and support exploratory analysis.

Experience

Toro Property Solutions, Dallas, TX

Software & Website Developer

July 2025 – December 2025

- Developed and deployed a responsive React-based web application using JSX to support image components for a property services startup.
- Integrated a Supabase backend to securely manage customer leads, appointments, and service data and implemented an email service.

Blaze Pizza, Ames, IA

Team Member

Nov 2022 – Apr 2025

- Delivered consistent customer service in a fast-paced environment while maintaining accuracy under pressure.
- Maintained organized and clean workstations to support efficient operations.

Skills

Programming & Data: Python, R, Java, SQL, Swift

Libraries & Frameworks: Pandas, Polars, NumPy, Streamlit, SwiftUI

Data Engineering & ML: ETL Pipelines, Parquet, Machine Learning, Reinforcement Learning, Data Visualization, Tableau, Power BI

Cloud & Tools: AWS, Cloudflare Workers, Supabase, MongoDB, Neo4j, Git, Microsoft Excel (advanced)

Languages

- English (Fluent)
- Spanish (Fluent / Native)
- Japanese (Beginner)