Edgar Yepez

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Education

Texas A&M University — College Station, TX
Bachelor of Science in Applied Mathematics (Computational Science Emphasis) — *August 2022 – December 2026*

Professional Experience

American Ship — Brownsville, TX
Machine Learning Engineer - Computer Vision — *May 2024 – August 2025*

- Reduced package processing time to **2 seconds** per package
- Trained YOLOv8 image segmentation model to locate shipping labels, barcodes, and extract package information for the inbounding process
- Fine Tuned Google Tesseract ORC engine to achieve **95% accuracy** in extracting text from shipping labels, improving upon the default model's performance on our specific dataset
- Built RAG system using LangChain to assist customers with commonly asked questions; experimented with database integration

SquidServers — Remote
Founder/Full Stack Developer — *May 2025 – Present*

- **717,225+ Servers Started, 84,574+ Users**
- Developed Electron.js application features including settings, backup management, Supabase/Stripe/Brevo integrations, and cross-platform ray system
- Designed company website and managed Mac app releases, resolving platform-specific bugs

Aggie Investment Club — College Station, TX
Quantitative Developer — *September 2025 – Present*

- Lead team translating prediction market signals to stock market investments; managing **$68,066 fund**
- Built earnings prediction model aggregating Polymarket data, Eikon predictors, and analyst recommendations into a unified investment signal
- Developed backtesting engine for Polymarket-to-stock-market signals using SQLite and SQLAlchemy
- Created Polymarket trading engine with live trading, paper trading, and mean reversion strategies for sports and crypto markets

Projects & Outside Experience

Applications of Probability: Prediction Markets | *Math 482, Texas A&M, Spring 2026*
https://github.com/Yepez1000/Applications-of-Probability-Prediction-Markets

- Developed a project on discrete probability models for prediction markets; proved markets are approximately martingales using binomial trees and risk-neutral probabilities
- Included Python simulations plotting theoretical models against real-world data from sports games and 5-minute Bitcoin markets

Yepai – ML Route Grader (1st Place Winner) | *YOLOv8, PyTorch, GNNs* — College Station, TX, USA
https://github.com/Yepez1000/yepai-climbs

- Won 1st place out of 44 teams by building an intelligent rock climbing route grader using a three-layer pipeline
- Built dual YOLOv8 models for hold detection and color classification (limited dataset)
- Implemented GNN connecting reachable nodes with hold-type features, achieving 65% accuracy on difficulty grading
- Deployed on AWS EC2 and integrated with Next.js for real-time predictions

Technical Skills

Programming Languages: Python, C, C++, TypeScript, SQL
AI & ML: LangChain, PyTorch, YOLOv8, Google Tesseract OCR, RAG Systems
Backend: Node.js, Supabase, SQLite, SQLAlchemy, Prisma
Frontend: Next.js, Electron.js, React
Developer Tools: Neovim, Tmux, Git, GitHub, AWS EC2