

# Eduardo Isaac Tenorio González

Fayetteville, Arkansas, USA

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## EDUCATION

### University of Arkansas, Fayetteville, AR

Jan 2022 – Dec 2025

Bachelor of Science in Computer Engineering; GPA: 3.77

Minor in Mathematics

Relevant Coursework: Software Engineering, Database Management, Introduction to Artificial Intelligence, Machine Learning, Calculus I, Calculus II, Calculus III, Linear Algebra, Discrete Math, Elementary Differential Equations, Data Mining (current class)

## RESEARCH EXPERIENCE

### Undergraduate Research Assistant

Apr 2023 – Dec 2024

Department of Computer Science, University of Arkansas

- Conducted statistical analysis and modeling on large datasets, applying machine learning techniques for risk and privacy evaluation.
- Analyzed source code of 100+ websites to evaluate digital privacy and data collection practices.
- Developed a browser extension to assess personal data usage. - Investigated 70+ third-party trackers to inform privacy-enhancing technologies.

## ML & QUANT PROJECTS

- **Bayesian Spam Classifier:** Built a probabilistic model to classify spam emails, achieving >90% accuracy. Demonstrated Bayesian reasoning and uncertainty quantification.
- **Time Series Forecasting under Uncertainty:** Forecasted stock market data using ARIMA, Prophet, and Bayesian Structural Models; compared MAE/RMSE and credible intervals.
- **Momentum Crossover Strategy:** Designed and backtested a trading strategy using moving averages in Python; evaluated Sharpe ratio, max drawdown, and return consistency.

## SOFTWARE ENGINEERING PROJECTS

- **Photon Laser Tag System:** Built a multiplayer game engine using Python, PostgreSQL, and UDP sockets in Linux; tested with original Photon Hardware.
- **NFL Team Tracking Website:** Designed a dynamic site using HTML, CSS, and PHP connected to a SQL database.
- **EZ Repz (Hackathon Project):** Created a website to help visually impaired gym users navigate equipment with RFID and text-to-speech technology.

## MACHINE LEARNING COURSEWORK PROJECTS

- **Linear Regression with Regularization:** Applied Linear, Ridge, and Lasso regression to Boston Housing dataset; engineered interaction variables.
- **Binary Classification:** Implemented Logistic Regression, LDA, QDA, and Naïve Bayes; evaluated with F1 Score and ROC.
- **Ensemble Methods:** Tuned Random Forest and Boosting classifiers on wine dataset.
- **SVM Classification:** Used polynomial and RBF kernels on Iris dataset; compared decision boundaries.

## HONORS AND AWARDS

SENACYT Undergraduate of Excellence, *Republic of Panama*  
2nd Place – HogHacks Hackathon, *University of Arkansas*

*Aug 2021 – Dec 2025*  
*Apr 2024*

## LEADERSHIP AND SERVICE

**Vice President, Panamanian Student Organization**  
*University of Arkansas, Fayetteville, AR*

*May 2024 – May 2025*

- Promoted Panamanian culture and led cultural exchange programs.

**Community Soccer Coach**

*Jan 2024 – May 2024*

- Coached children ages 7–8, teaching soccer fundamentals and teamwork.

**Spanish Conversation Program Leader**

*Aug 2022 – Present*

- Led weekly Spanish tables to improve conversational skills and intercultural understanding.

## PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery (ACM)  
IEEE-HKN Gamma Phi Chapter

*Aug 2023 – Present*  
*Apr 2025 – Present*

## CERTIFICATES

- **Calculus for Machine Learning and Data Science** — DeepLearning.AI (Machine Learning, Neural Networks, Regression, Linear Algebra)
- **Linear Algebra for Machine Learning and Data Science** — DeepLearning.AI (Algebra, Machine Learning)
- **Fundamentals of Quantitative Modeling** — University of Pennsylvania (Statistical Analysis, Regression, Visualization)
- **Google AI Essentials** — Google (*Critical Thinking*)

## TECHNICAL SKILLS

- Programming: Python, R, C++, C, SQL, HTML/CSS, PHP, LaTeX
- ML & Quant Tools: Scikit-learn, Statsmodels, Prophet, ARIMA, Pandas, NumPy, Backtrader
- Databases & Systems: PostgreSQL, Linux, UDP Sockets
- Soft Skills: Problem Solving, Teamwork, Adaptability, Responsibility, Stress Management

## LANGUAGES

Spanish (native), English (fluent), Portuguese (intermediate), Italian (intermediate)