

Ben Irastorza

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EDUCATION

Georgia Institute of Technology

July 2026

Bachelor of Science in Computer Science

GPA: 3.6/4.0

- Concentration: Artificial Intelligence, Information Internetworks
- Relevant Coursework: Data Structures & Algorithms, Systems & Networks, Computer Organization & Programming, Database Systems, Computer Networking, Linear Algebra, Calculus, Probability & Statistics

EXPERIENCE

Bulk Power Operations Intern

Aug 2025 – Present

Southern Company

Birmingham, AL

- Engineering a real-time monitoring system using AVEVA PI System Explorer and PI Vision to track data center load volatility, driving proactive decision-making for the balancing authority.
- Achieved a 47% reduction in Mean Absolute Percentage Error (MAPE) for winter peak load predictions by creating an XGBoost machine learning model, improving operational efficiency through more accurate demand forecasting.

Advanced Analytics Intern

May 2025 – Aug 2025

UCB

Smyrna, GA

- Built a BERT-based model to perform advanced patient similarity analysis, to enable the identification of undiagnosed patients, flag those at risk for adverse events, and improve clinical trial cohort selection.
- Provided actionable mortality insights to the medical team by performing delayed-entry Kaplan–Meier survival analysis of a commercial drug using Python’s lifelines package, enhancing patient risk assessment.
- Conducted a subpopulation analysis of CDKL5 Deficiency Disorder patient data using Komodo Health’s Sentinel platform, validating anti-epileptic drug usage patterns and supporting clinical research.

Software Engineer Intern

May 2024 – Aug 2024

The Parker Avery Group

Atlanta, GA

- Developed an Agentic AI application enabling client executives to access analytics and visualizations on demand through natural language queries, reducing analytics team overhead.
- Cut AI processing costs by 50% and improved efficiency by leveraging OpenAI’s Batch API for asynchronous processing of large-scale data jobs.
- Boosted large language model response accuracy by 16% by generating a specialized training dataset with complex PostgreSQL queries, addressing bias and accuracy questions in retail time series forecasting.
- Standardized development environments with Mamba YAML files and clear documentation, reducing onboarding time and ensuring consistent project setups.

PROJECTS

Enhanced Spotify Wrapped | *Java, Android SDK, Firebase, Git, Figma*

- Developed an Android Studio mobile app utilizing the Spotify Web API to deliver personalized music recaps, tailored recommendations, and real-time AI-powered conversations with favorite artists.
- Improved build reliability and reduced deployment errors by automating Gradle build validation with a CI/CD pipeline via GitHub Actions, achieving consistent builds each sprint.
- Ensured user data security by leveraging Firebase for account management, login, and credential protection.
- Eliminated interface inconsistencies by standardizing the app’s design language with Figma prototype designs translated to XML for Android implementation.

TECHNICAL SKILLS

Languages: Python, Java, C, SQL, HTML, CSS

Libraries/Frameworks: Pandas, NumPy, Matplotlib, Scikit-learn, LangChain, JUnit

Development Tools: Docker, Git, Jira, Figma, Wireshark, Mamba

Cloud/Databases: Databricks, Snowflake, PostgreSQL, MySQL, Firebase, Milvus