

Ben Irastorza

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SUMMARY

3rd-year Computer Science Student with strong programming, mathematics, and data analysis skills. Interested in developing AI and data-driven applications.

EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science

Expected May 2026

GPA: 3.5/4.0

- **Concentration:** Artificial Intelligence and Information Internetworks
- **Relevant Coursework:** Data Structures & Algorithms, Systems & Networks, Computer Organization & Programming, Database Systems, Computer Networking, Linear Algebra, Calculus, Probability & Statistics
- **Involvement:** IFC Social Committee Lead Safety Coordinator, Lambda Chi Alpha Fraternity Founding Father, Catholic Center

TECHNICAL SKILLS

Languages: Python, Java, C, SQL

Libraries/Frameworks: LangChain, NumPy, Pandas, Matplotlib, JUnit, Tailwind

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

Cloud/Databases: MySQL, PostgreSQL, Firebase, Milvus

EXPERIENCE

Undergraduate Researcher

Aug 2024 – Present

Georgia Tech Automotive LiDAR Lab

Atlanta, GA

- Researching advanced automotive systems to enhance vehicle autonomy through **LiDAR** technology.
- Developing **Python**-based edge detection algorithms using OpenCV in a containerized ROS environment.
- Collaborating with the electrical team to test and optimize sensor data for enhanced driving performance.

Data Science Intern

May 2024 – Aug 2024

The Parker Avery Group

Atlanta, GA

- Built the firm's **Generative AI** initiatives within a **Scrum** framework, applying retail analytics knowledge.
- Achieved a **50%** reduction in AI processing costs and improved efficiency by leveraging OpenAI's **Batch API** to enable asynchronous processing of large-scale data jobs.
- Increased predictive model accuracy by **20%+** by generating a specialized training dataset using advanced **PostgreSQL** queries to address forecast bias and accuracy queries.
- Ensured consistent setups and streamlined onboarding by standardizing development environments with **Mamba** YAML files, supported by comprehensive and well-structured **documentation**.

PROJECTS

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

- Integrated **custom AI** to enhance the app with conversational capabilities tailored to individual user preferences, personalizing and improving the app experience.
- Implemented a **CI/CD** pipeline using GitHub Actions for automating testing with **Gradle**, reducing build errors.
- Used **Firebase** to manage account creation, login, and secure user credentials, ensuring robust **data protection**.
- Designed the front end in **Figma** and transferred the layouts to **XML** for **Android** implementation, ensuring design consistency across the app.

Personal Computer Building Business

- Oversee **10** client projects, delivering custom-built systems with a **100%** satisfaction rate through precise component selection, assembly, and ongoing support.
- Evaluate CPU core count and architecture to match workload characteristics, prioritizing IPC for single-threaded or parallelism for multithreaded tasks.

Portfolio Website | *HTML, CSS, Tailwind, Git*

- Implemented **HTML** for structured content while leveraging **Tailwind CSS** for visual styling and layout design.
- Automated the **deployment** process with **GitHub Actions** for seamless and efficient portfolio updates.