# Ben Irastorza

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## EDUCATION

**Georgia Institute of Technology** — Atlanta, GA
*Bachelor of Science in Computer Science* — **Expected Dec 2026**

- **Concentration:** Artificial Intelligence and Information Internetworks — **GPA: 3.5/4.0**
- **Relevant Coursework:** Data Structures & Algorithms, Systems & Networks, Computer Organization & Programing, Database Systems, Computer Networking, Linear Algebra, Calculus, Probability & Statistics
- **Involvement:** Transfer2Tech Mentorship Program, Lambda Chi Alpha Founding Father, IFC Social Committee

## EXPERIENCE

**Incoming Bulk Power Operations Intern** — Aug 2025 – Dec 2025
*Southern Company* — *Birmingham, AL*

- Developing predictive models for power surges to enhance grid stability and operational efficiency.

**Incoming Advanced Analytics Intern** — May 2025 – Aug 2025
*UCB* — *Smyrna, GA*

- Developing transformer-based AI models for predicting health outcomes in epilepsy patients.

**Undergraduate Researcher** — Aug 2024 – Present
*Georgia Tech Automotive LiDAR Lab* — *Atlanta, GA*

- Working on a multi-phase project advancing LiDAR-based autonomy through ongoing ROS2 system integration.
- Refactoring codebase to integrate Nav2 during transition from ROS to ROS2, enhancing navigation capabilities.
- Designing and implementing unit tests to validate system stability and ensure reliable deployment.

**Software Engineer 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, addressing bias and accuracy questions in retail time series forecasting.
- 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** | *Consultation, Technical-Sales, Client-Support*

- Oversee **10** client projects, delivering custom-built systems with a **100%** satisfaction rate through precise component selection, assembly, and ongoing support.

**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.

## 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