

# Lorenzo Gastaldi

## SOFTWARE AND MACHINE LEARNING ENGINEER

Atlanta, Georgia | +1 (404) 906-4040 | lorenzo.gastaldi3@gmail.com | linkedin.com/in/lgastaldi3 | lgastaldi3.github.io

### Experience

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#### The Coca-Cola Company | Digital Innovation Intern

June 2024 – August 2024

- Designed and implemented a PyTorch regression model to optimize promotional strategies with live sales data.
- Streamlined sales workflow, contributing up to 15% revenue growth across a market of 30 million consumers.
- Consulted cross-functional teams and bottlers to align development of solutions with real-world business needs.
- Engaged with international, multilingual tech consulting firms to orchestrate successful platform implementation.

#### Solv AI Technologies LLC | Software Engineer, Co-Founder

June 2023 – May 2024

- Researched student needs on campus to identify a core pain point and define the project's initial direction.
- Engineered a GPT-backed RAG model leveraging the Canvas API to provide personalized, course-specific responses.
- Built and deployed a full-stack web application on Microsoft Azure, serving up to 500 weekly active users.
- Conducted 300+ customer interviews to align the solution with user needs and validate the platform from MVP to launch.

#### Gezzo's West Coast Cantina | Server, Host

April 2024 – Jun 2024

- Maintained composure in high-pressure environments while upholding strong customer service standards.
- Managed service for up to 24 customers simultaneously, overseeing approximately 80 customers per shift.
- Optimized workflow by dynamically delegating tasks to the appropriate team members.

### Education

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#### Georgia Institute of Technology, BS Computer Science

2025

- **Major GPA:** 3.88, Highest Honors
- **Concentrations:** Machine Learning / Artificial Intelligence, Data Management
- **Relevant Coursework:** Machine Learning, Database Systems, Algorithm Design and Analysis, Networking, Blockchain

### Skills & Abilities

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- **Programming Languages:** Python, Java, C, MySQL, JavaScript, Typescript
- **Technical Skills and Tools:** REST APIs, Flask, Docker, Version Control, DevOps, CI/CD, Azure, AWS, GCP, Firebase, Sockets, Algorithm Design, Neural Networks, RAG, PyTorch, TensorFlow, NumPy, Pandas, React
- **Languages:** Fluent English, Fluent Spanish, Intermediate French

### Personal Projects

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#### Storyboard AI, Visual Content Generation Platform

April 2025 – Present

- Developed a Flask-based platform that transforms user submitted stories into visual narratives.
- Integrated AWS S3 bucket to support content storage and seamless media delivery.
- Actively developing a mobile-compatible web application with plans to extend functionality to a native iOS app.

#### GenScore, LLM Output Evaluation Model

March 2025 – Present

- Architected a dual-RNN TensorFlow model to predict user preference between LLM outputs using a comparison dataset.
- Cleaned 8GB of text data using regex and vectorized it for model-ready input in training and evaluation.
- Working to integrate pretrained BERT encoder to compensate for computational limitations of training in Google Colab.

#### Custom Language Model, GPT-2-Inspired Seq2Seq Model

January 2025 – May 2025

- Designed and implemented a data pipeline with Pytorch Dataloader for dataset cleaning and preprocessing
- Developed a sequence-to-sequence model with a GPT-2 Inspired architecture trained on a 10 MB corpus
- Built a single-head attention-based beam search decoding to balance generation quality and variation
- Evaluated model performance against comparably sized baseline models to assess output quality and coherence

#### Thrifty, College Marketplace Application

January 2024 – May 2024

- Created a smooth, responsive frontend using React Native integrated with real-time updates from backend.
- Designed and deployed a containerized Flask API on GCP enabling analytics and vector-based similarity search.
- Integrated Google Firebase for scalable data storage, image hosting, and real-time messaging.
- Facilitated weekly agile-style meetings across a distributed team working on interdependent components.