

Thomaz Felipe Bonato

+1 (610) 714-5325 | bonato@usc.edu | www.linkedin.com/in/thomaz-felipe-bonato | thomazbonato.vercel.app

EDUCATION

University of Southern California, Marshall School of Business & Viterbi School of Engineering **Los Angeles, CA**
Bachelor of Science, Artificial Intelligence for Business (BUAI) Expected May 2027

Honors: Full-ride (Trustee) Scholarship, Global Leadership Program, BUAI Cohort One

Relevant Coursework: Deep Learning, NLP, Data Science, Statistics, Applied Programming

GPA: 3.96

Unionville High School

Kennett Square, PA

Honors: Top 1% of class, National Merit Finalist, AP Scholar, *Thomas P. Webb* Mathematics Award

May 2023

GPA: 4.8/4.0, **SAT:** 1580/1600

WORK EXPERIENCE

Canaria

Los Angeles, CA

Data Science Intern

July 2024 – Present

- Engineered and fine-tuned a RoBERTa-based NLP model for unlabeled text segmentation, achieving 86% accuracy in classifying text into 9 distinct categories, enhancing data structuring for downstream ML tasks
- Optimized a GPU-based inference pipeline using PyTorch and NVIDIA CUDA, reducing real-time processing by 70%
- Developed a scalable data processing system using Python and GCP, capable of handling millions of job descriptions

SageAI

Los Angeles, CA

Co-Founder

Feb 2024 – Present

- Engineered sophisticated RAG LLM web application for legal professionals, enhancing workflow efficiency by 40%+
- Cultivated 9 design partnerships with boutique law firms, securing \$54k ARR within 14 days of initial launch
- Led backend development efforts using Python FastAPI, Pinecone, and Meta's LLaMa 3 (See demo at hellosage.app)

Retail Trader

West Chester, PA

Self-employed Stock Analyst

June 2022 – June 2024

- Actively managed 5-figure portfolio through proprietary AI-driven time series analysis (LSTM-based), achieving a 14% return over three months in 2022, significantly outperforming the S&P 500 by 1.8x
- Automated trading strategies in 2023 through Python & Pinescript, leading to an estimated annualized return of 70%+

PROJECTS AND ACADEMIC INVOLVEMENT

Azalea: Eco-Friendly AI Model Selector (1st Place)

Philadelphia, PA

Hackathon Winner

June 2024

- Developed a routing system for AI models & search engines based on energy consumption and query complexity
- Built with React-FastAPI app, MongoDB data storage and RandomForestClassifier for query complexity prediction
- Enabled users to make informed decisions on AI model usage through real-time environmental impact metrics

AI Researcher, University of Southern California

Los Angeles, CA

Research Assistant

Dec 2023 – April 2024

- Collaborated with Kimon Drakopoulos on pioneering research analyzing AI's impact in the educational sector
- Analyzed existing scholarly research to construct a foundational literature review, identifying emerging trends in eduAI
- Devised a strategic framework outlining best practices for ethical integration of AI technologies to inform major stakeholders within the Greek government & education board; awaiting publication in a peer-reviewed journal

Claire's Place Foundation (under NDA)

Los Angeles, CA

Lead Data Analyst

Dec 2023

- Spearheaded 6-member team to examine donation trends vs. sector-wide patterns for leading cystic fibrosis non-profit
- Applied advanced R techniques for deep-dive analytics, emphasizing regression, predictive analysis, and data inference
- Presented a robust 3-phase strategy to the CEO addressing key challenges, incl. a roadmap for increasing contributions

Clevr Peer Tutoring LMS

Kennett Square, PA

Co-Founder

June 2020 – May 2023

- Engineered a digital system to fill the personalization gap in education, facilitating student-tutor matching processes
- Utilized advanced algorithms in JavaScript for efficient matchmaking, reducing average pairing wait time by 92%
- Matched 670+ student-tutor pairs and continues to be endorsed by faculty and students after 5th year of operation

SKILLS AND INTERESTS

Programming Languages: Python (Pandas, PyTorch), Java, JavaScript, C++, SQL

Tools and Platforms: AWS, GCP, React, FastAPI, Pinecone, Figma

Soft Skills: Strategic Leadership, Project Management, Data-Driven Decision Making

Interests: Tennis, Powerlifting, Philosophy and Poker