

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, Linear Algebra

GPA: 3.96/4.0

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 pipeline for text classification, achieving 92% accuracy in classifying text into 8 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 22%
- Developed a scalable data processing system using Python and GCP, used to segment 500 million+ job descriptions
- Enhanced NLP library functionality and implemented rigorous unit tests, increasing data point coverage by ~70%

SageAI

Los Angeles, CA

Co-Founder

Feb 2024 – July 2024

- 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 hellolage.app)

University of Southern California

Los Angeles, CA

AI Research Assistant

Dec 2023 – April 2024

- Collaborated with Kimon Drakopoulos on pioneering research analyzing AI technology's impact in 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

PROJECTS AND ACADEMIC INVOLVEMENT

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

Philadelphia, PA

Hackathon Winner

June 2024

- Created a routing algorithm for AI models & search engines based on energy consumption and query complexity
- Built with React-FastAPI app, MongoDB data storage and custom RandomForestClassifier for complexity prediction
- Enabled users to make informed decisions on AI model usage through real-time environmental impact metrics
- Secured 1st Place Overall out of 486 participants in AI for Change Hackathon hosted by Launchology (see Devpost)

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 700+ student-tutor pairs and continues to be endorsed by faculty and students after 6th year of operation

SKILLS AND INTERESTS

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

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

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

Interests: Tennis, Basketball, Powerlifting, Philosophy and Poker