

GUILLERMO BASTERRA DIEZHANDINO

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EDUCATION

University of Southern California Los Angeles, California
Bachelor of Science: Computer Science Major, Disruptive Innovation Minor August 2022-May 2026
Activities: Center for AI in Society, Lambda Chi Alpha Fraternity GPA: 3.5/4.0
Coursework: Algorithm Design, Discrete Methods in Computer Science, Linear Algebra and Differential Equations, Software Engineering, Data Structures and OOD, Computer Systems, Disruptive Innovation, Multivariable Calculus, Theory of Computing

WORK EXPERIENCE

Pencil AI London, United Kingdom
AI Engineer Intern, Insights and Predictions team June 2024-September 2024

- Implemented Gemini Pro to assess ads according to Google's ABCD framework for ad performance
- Shipped 'ABCD Detector' to production in collaboration with product and engineering teams at Pencil and Google
- Cut down processing time from 7 minutes to 30s for each video advertisement
- Achieved 90% performance improvement in accuracy and processing through prompt engineering and validity checks

Research at USC Department of Industrial and Systems Engineering Los Angeles, United States
Mentorship under Anthony Nguyen, PhD July 2022-August 2022

- Presented research poster on applications of Machine Learning for clinical decision making to 50+ students and faculty
- Studied research process for Machine Learning, including algorithms utilized, variable selection methods, and validation processes

Mentorship under DeepMind research scientist Luis Piloto London, United Kingdom
Google DeepMind AI Mentorship June 2022-August 2022

- Studied basic machine learning and artificial intelligence (linear and logistic regression, loss functions, gradient descent, etc.)
- Built a CNN model from scratch using TensorFlow, implemented OCR, and finally Hopfield neural network

Marcho Partners London, United Kingdom
Summer intern at global technology-focused hedge fund June 2021-July 2021

- Shadowed investment team and participated in executive meetings (\$1bn+ in AUM)
- Conducted and presented analyses of potential investments, researched venture capital outlook worldwide

LEADERSHIP & INVOLVEMENT

USC Center for Artificial Intelligence and Society Los Angeles, California
Member September 2022-Present

- Devised predictive models for wildfire occurrence and spread in Northern California
- Engineered a comprehensive dataset of meteorological data
- Studied and applied classical machine learning and neural networks for projects including sentiment analysis and computer vision

Student Rideshare Website Los Angeles, California
Backend developer March 2024-May 2024

- Developed a website to facilitate transportation from LA airport to university campus
- Integrated MySQL for database management and deployed using AWS RDS and CodePipeline

ASL Sustainability Council London, England
Leader of Carbon Neutrality September 2020-May 2022

- Spear-headed and founded school-wide initiative to achieve net zero emissions
- Outlined student vision and goals for carbon neutrality to the ASL Director and Board of Trustees across year long meetings

SKILLS & INTERESTS

Languages: English (native speaker), Spanish (native speaker), French (proficient)
Programming Languages: Python, Java, C++, C, JavaScript, HTML, CSS, and some Assembly!
Tools & Technologies: Git/GitHub, Docker, Linux, Android Studio, React, Next.js, Figma, TensorFlow, PyTorch, Scikit-learn
Databases: SQL, MongoDB, Firebase
Personal Interests: Marathon running, acoustic and electric guitar, hiking, weight lifting, drawing and painting, reading