**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