

Nick DiSanto

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Education

California Baptist University

Aug. 2019 – Apr. 2023

B.S. in Computer Science, *summa cum laude*

GPA: 4.0/4.0. Ranked #1 in graduating class.

Experience

CalBaptist ML & NLP Lab

Jan. 2022 – Present

Lead Undergraduate Researcher

- Builds representation models to find empirical patterns in unstructured social media data, challenging the necessity of complex algorithms for natural language pattern recognition
- Proposes a novel data preprocessing approach that introduces noise, helps medical imaging models better perceive their environments, and makes them accessible for low-income communities
- Produced analyses and applications for three papers, leading the team from inception to execution

GE Vernova

Dec. 2023 – Present

Software Engineer

- Builds ML pipelines for analysis of grid solutions and renewable energy applications

Sirch

Sep. 2023 – Dec. 2023

NLP Consultant

- Built models that perform Query Auto-Completion (QAC), information retrieval, and NLU
- Scaled product to efficiently handle increasing foot traffic while maintaining a personalized UI

General Electric

June 2022 – Aug. 2023

Software Engineering Intern

- Led the deployment of a database cleanup initiative that saves thousands of dollars per year
- Developed and optimized microservices for large-scale data ingestion and analytic applications

Keysight Technologies

June 2021 – Aug. 2021

Software Engineering Intern

- Created a web platform and built applications to enable clients to customize their products
- Used T-SQL to perform data analysis and eliminate 40% of product-option configurations

Publications & Preprints

Spatial Analysis of Social Media's Proxies for Human Emotion and Cognition.

A Corso, **N DiSanto**, N Corso, E Lee. *iConference 2024*. [\[code\]](#)

Transcending the Attention Paradigm: Representation Learning from Geospatial Social Media Data.

N DiSanto, A Corso, B Sanders, G Harding. *[Under Review]*, 2023. [\[pdf\]](#) [\[code\]](#)

Leveraging Contextual Data Augmentation for Generalizable Melanoma Detection.

N DiSanto, G Harding, E Martinez, B Sanders. *arXiv preprint arXiv:2212.05116*, 2022. [\[pdf\]](#) [\[code\]](#)

Beyond Interpretable Benchmarks: Contextual Learning through Cognitive and Multimodal Perception.

N DiSanto. *arXiv preprint arXiv:2304.00002*, 2022. [\[pdf\]](#)

Teaching Experience	EGR121: Intro to C++ , <i>Teaching Assistant</i>	SP 2023
	EGR225: Discrete Structures , <i>Teaching Assistant</i>	FA 2022
	CSC312: Algorithms , <i>Tutor</i>	SP/FA 2022
	EGR329: Computer Architecture , <i>Tutor</i>	SP/FA 2022
	PHY201: Physics for Engineers , <i>Teaching Assistant</i>	SP/FA 2021

Service	Reviewer
	<ul style="list-style-type: none"> • <i>Decision Support Systems</i>, 2023 • <i>Mathematics</i>, 2022

Awards & Honors	CS Outstanding Student Award (ranked #1/40)	Apr. 2023
	Inducted into Alpha Chi Honor Society (top 10%)	Apr. 2022
	Physics Performance & Leadership Award	Dec. 2021
	President's List (every semester of undergraduate study)	FA 2019 – SP 2023
	Trustee Merit Scholarship	FA 2019 – SP 2023
	Engineering Excellence Scholarship	SP 2021 - SP 2023

Leadership & Outreach	Founder and President of CBU Chess Club.
	Member of CBU's Association for Computing Machinery (ACM) Chapter.
	Lead trumpet and section leader in 4 competitive CBU musical ensembles.
	Set up a newly opened high school's computer lab.
	Performed STAR test data analysis for an elementary school in a low-income area.