

# Nick DiSanto

<https://nickdisanto.github.io>

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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*

- Investigates representation learning to find abstract patterns in unstructured social media data, challenging the necessity of complex algorithms for natural language pattern recognition
- Proposes a novel approach to data preprocessing that allows medical imaging models to better perceive their environments and democratizes accessibility for underrepresented communities
- Produced analyses and applications for three papers, leading the team from inception to execution

### Sirch

Sep. 2023 – Present

*NLP Consultant*

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

### General Electric

June 2022 – Aug. 2023

*Software Engineering Intern*

- Led the development, implementation, and deployment of an automated database cleanup initiative that saves the organization 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-based platform for process/document management and team collaboration. Built product customization applications to enable clients to tailor their specific purchases
- Used T-SQL to perform high-level data analysis, eliminating 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. [\[pdf\]](#)

<b>Teaching Experience</b>	Intro to C++, <i>Teaching Assistant</i>	SP 2023
	Discrete Structures, <i>Teaching Assistant</i>	FA 2022
	Algorithms, <i>Tutor</i>	SP/FA 2022
	Computer Architecture, <i>Tutor</i>	SP/FA 2022
	Physics for Engineers II, <i>Teaching Assistant</i>	SP/FA 2021
<b>Presentations</b>	<i>Twitter2030 – Empirical Social Media Analysis</i> . [Co-presented].	Apr. 2023
	CBU Undergraduate Thesis and Capstone Composition	
<b>Service</b>	<b>Secondary Reviewer</b>	
	• <i>Decision Support Systems</i> , 2023	
	• <i>Mathematics</i> , 2022	
<b>Awards &amp; Honors</b>	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
<b>Leadership</b>	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.	