https://nickdisanto.github.io

nick.c.disanto@gmail.com

| Education | Vanderbilt University PhD in Computer Science GPA: -/ | Jan. 2025 – Present | |
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| | California Baptist University B.S. in Computer Science, summa cum laude GPA: 4.0/4.0. Ranked #1 in graduating class. | Aug. 2019 – Apr. 2023 | |
| Experience | Vanderbilt Medical Image Computing Lab Graduate Student Researcher Building OCT mosaicking and denoising models to track ROP progr | Jan. 2025 – Present ession in infants | |
| | GE Vernova Software Engineer Led the wildfire forecasting initiative, including the end-to-end tr productization of ML pipelines with power grid applications | Jan. 2024 – Jan. 2025 raining, visualization, and | |
| | Presented results of wildfire risk forecasting analytic to the C-Suite, helping to secure significant funding for further integration Honored as a 2024 GE Vernova Changemaker for co-leading a company-wide initiative to integrate GenAI into GEV Electrification Software products | | |
| | CalBaptist ML & NLP Lab Lead Undergraduate Researcher Built representation models to find empirical patterns in unstructure the necessity of complex algorithms for natural language pattern rece Proposed a novel data preprocessing approach that introduces noise models better perceive their environments, increasing accessibility fo Produced analyses and applications for three papers, leading the team | Jan. 2022 – Dec. 2023 ed online data, challenging ognition and helps medical imaging r low-income communities from inception to execution | |
| | Sirch NLP Consultant Built models that perform Query Auto-Completion (QAC), informat Scaled product to efficiently handle increasing foot traffic while main | Sep. 2023 – Dec. 2023 cion retrieval, and NLU ataining a personalized UI | |
| | General Electric Software Engineering Intern Led the deployment of a database cleanup initiative that saves thous Developed and optimized microservices for large-scale data ingestion | June 2022 – Aug. 2023 sands of dollars per year and analytic applications | |
| | Keysight Technologies Software Engineering Intern Created a web platform and built applications to enable clients to cu | June 2021 – Aug. 2021 Istomize 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. International Conference on Information, 2024. [code] Transcending the Attention Paradigm: Representation Learning from Geospatial Social Media Data. N DiSanto, A Corso, B Sanders, G Harding. arXiv preprint arXiv:2310.05378, 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] | | |
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| Teaching | EGR121: Intro to C++, Teaching Assistant | SP 2023 | |
| Experience | EGR225: Discrete Structures, Teaching Assistant | FA 2022 | |
| | CSC312: Algorithms, Tutor | SP/FA 2022 | |
| | EGR329: Computer Architecture, Tutor | SP/FA 2022 | |
| | PHY201: Physics for Engineers, Teaching Assistant | SP/FA 2021 | |
| Service | Reviewer Decision Support Systems, 2023 Mathematics, 2022 | | |
| Awards & | 2024 GE Vernova Changemaker (selected out of 1200 nominees) | Nov. 2024 | |
| 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 & | Founder and President of CBU Chess Club. | | |
| Outreach | 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 local high school's computer lab. | | |
| | Performed STAR test data analysis for an underresourced elementary school during the pandemic. | | |