Daniel **Kerrigan**

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Education

New York University Brooklyn, NY
PH.D. IN COMPUTER SCIENCE - TANDON SCHOOL OF ENGINEERING Sep. 2019 - Present
- Advisor: Associate Professor Enrico Bertini
- GPA: 4.0/4.0, Expected graduation: 2024

University of Notre Dame Notre Dame, IN
BACHELOR OF SCIENCE IN COMPUTER SCIENCE May 2018
- GPA: 3.99/4.0 - summa cum laude

Experience

Amazon Robotics Westborough, MA
SOFTWARE DEVELOPMENT ENGINEER July 2018 - Aug. 2019
- Contributed to building an internal Android application and supporting services used to manage robotic warehouses.
- Lead a re-architecture of a back end service to migrate off of an external dependency and to expand capabilities.

Amazon Robotics Westborough, MA
SOFTWARE DEVELOPMENT ENGINEER INTERN May - Aug. 2017
- Completed a proof of concept project to analyze how a new database could be integrated into an existing big data platform, which allowed team leaders to make an informed decision on whether or not to use the product going forward.
- Wrote data extraction and aggregation logic and ran performance tests to evaluate the database.

Projects

SliceLens

- Develops a web application for guided exploration of machine learning datasets and model predictions.

Survey of Expert Elicitaiton for Machine Learning

- Analyzed machine learning research papers for how they elicited and used knowledge from domain experts.
- D. Kerrigan, J. Hullman, and E. Bertini. 2021. "A Survey of Domain Knowledge Elicitation in Applied Machine Learning". *Multi-modal Technologies and Interaction* 5, no. 12: 73. https://doi.org/10.3390/mti5120073

Bytes of Nutrition

- Designed and implemented an interactive visualization for nutrition data using D3.js.
- Collaborated with a graduate student to expand the project into a research poster, which was accepted to IEEE VIS 2017.
- S. He, D. Kerrigan, and R. Metoyer. 2017. "Nutrition Bytes: Visualizing Food Content". *IEEE VIS 2017 Poster Extended Abstract*

Skills

Languages Proficient in Python, Java, and JavaScript. Some experience with C and F#.
Technologies D3.js, Svelte, Shell scripting, Git, and AWS services including DynamoDB, SNS, and SQS

Teaching

NYU

- Teaching assistant for Information Visualization (Spring 2020, Fall 2020, Spring 2021, Summer 2021, Fall 2021).
- In charge of teaching students how to build visualizations using D3.js.
- Develops Observable notebooks to teach D3 concepts, creates assignments, runs in class exercises, and holds office hours.