Daniel **Kerrigan**

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Education

Northeastern University   *Boston, MA*

PH.D. IN COMPUTER SCIENCE   *Jan. 2022 - Present*

- Advisor: Associate Professor Enrico Bertini
- Expected graduation: 2024

New York University   *Brooklyn, NY*

MASTER OF SCIENCE IN COMPUTER SCIENCE - TANDON SCHOOL OF ENGINEERING   *Sep. 2019 - Dec. 2021*

- I was enrolled in the Ph.D. program at NYU and then transferred after receiving my M.S. to follow my advisor.
- GPA: 4.0/4.0

University of Notre Dame   *Notre Dame, IN*

BACHELOR OF SCIENCE IN COMPUTER SCIENCE   *Sep. 2014 - 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.
- Built using TypeScript, Svelte, and D3.js. Open-source on GitHub.

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”. *Multimodal 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.
- 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.
- Developed Observable notebooks to teach D3 concepts, created assignments, ran in class exercises, and held office hours.