Daniel **Kerrigan**

✉ djk525@nyu.edu   🏠 dankerrigan.me   🐙 DanielKerrigan   🔗 kerrigandan

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.

Notre Dame HCI Lab   *Notre Dame, IN*

UNDERGRADUATE RESEARCH ASSISTANT - ASSOCIATE PROFESSOR RONALD METOYER   *Aug. - May 2018*

- Explored how to effectively display software engineering traceability data by prototyping interactive visualizations using D3.js.

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   *Feb. 2020 - Present*

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

Bytes of Nutrition   *Jan. - May 2017*

- 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.
- He, S., Kerrigan, D., Metoyer, R. (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 C++.

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).
- 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.

Notre Dame

- Teaching assistant for Systems Programming (Spring 2017) and Data Structures (Spring 2018).