Daniel **Kerrigan**

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Education

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 - Present*

- Building an internal Android application and supporting services used to more efficiently manage robotic warehouses.
- Leading a re-architecture of a back end service to reduce an external dependency and expand capabilities.

Notre Dame HCI Lab *Notre Dame, IN*

Undergraduate Research Assistant *Aug. - May 2018*

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

Notre Dame Computer Vision Research Lab *Notre Dame, IN*

Undergraduate Research Assistant *Jan. 2017 - May 2018*

- Trained convolutional neural networks to perform iris segmentation.
- Ran experiments to compare the performance of different network architectures at the task of iris segmentation.

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 will allow 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.

EMC Corporation *Hopkinton, MA*

Software Engineering Intern *May - Aug. 2016*

- Wrote Python scripts to parse, analyze, and compare timing logs for hardware upgrades on enterprise storage arrays.
- Built a web app to estimate how long upgrades should take, which enables more accurate planning, billing, and assessment.

Projects

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*

Jamocracy.xyz *Oct. 2015 - Oct. 2016*

- Played a lead role in implementing a web app that enables users to add songs to Spotify playlists via text messages.
- Won the top coding award in the Schurz Innovation Challenge at Notre Dame.
- Built using Heroku, Node.js, Express, Twilio, and the Spotify Web API.

Skills

Languages Python, Java, JavaScript, C, C++, Bash

Technologies D3.js, DynamoDB, Git, Heroku, JUnit, Linux, Mockito, Node.js, SNS, SQS

Activities

President Notre Dame ACM Student Chapter (May 2016 - May 2017)

Teaching Assistant Systems Programming (Spring 2017), Data Structures (Spring 2018)