Daniel **Kerrigan**

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Education

University of Notre Dame *Notre Dame, IN*

Bachelor of Science in Computer Science *May 2018*

- GPA: 3.98/4.0 - Dean's List All Semesters

Experience

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.
- Gained experience using AWS products including DynamoDB, SQS, and EC2.

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

Undergraduate Research Assistant *Jan. - May 2017*

- Trained convolutional neural networks to perform iris segmentation.

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.
- Developed a web app using Java EE to estimate how long upgrades should take, which enables more accurate planning, billing, and assessment of upgrades.
- Integrated the upgrade time estimator into an existing Java Spring application as a RESTful service.

Software Engineering Intern *May - Aug. 2015*

- Configured, maintained, and secured a private Docker registry using Nginx.
- Implemented an image pull counter for the Docker registry using the ELK stack and integrated this with an open source UI.
- Expanded code coverage for a production software project by writing unit tests with JUnit and EasyMock.

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.

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.
- Awarded third place for best overall app at the 2015 AT&T Mobile App Hackathon at Notre Dame.
- 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, Swift, C, C++, JavaScript, Bash

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

Activities

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

Teaching Assistant Systems Programming (Spring 2017)

Participant AT&T Mobile Hackathon 2014 and 2015, HackIllinois 2015 and 2016, BoilerMake 2017