Ryan Zembrodt

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Education:

University of Kentucky, Lexington, KY **August 2017 to Present**
Master of Science in Computer Science Expected Graduation Date: May 2019
Relevant Computer Science Coursework: Current GPA of 3.66

- Algorithms
- Operating Systems
- Machine Learning
- Models of Computation
- Advanced Software Engineering
- Large Scale Data Science
- Independent Study – Sequence to Sequence Networks

University of Kentucky, Lexington, KY **Graduation Date: May 2016**
Bachelor of Science in Computer Science, Minor in Mathematics Cumulative GPA of 3.33
Relevant Computer Science Coursework:

- Senior Design Project (Machine Learning)
- Concurrent Programming
- Introduction to Artificial Intelligence
- Systems Programming
- Algorithm Design/Analysis
- Compilers
- Introduction to Database Systems
- Software Engineering

Other Coursework:

- Studied global energy issues through the University of Kentucky at the Karlsruhe Institute of Technology in Karlsruhe, Germany during the summer of 2015

Computer Skills:

Programming Languages: Java, Python, C, C++, Go, C#, JavaScript, SQL
Operating Systems: Windows and Linux
Other: Hadoop, MapReduce

Work Experience:

University of Kentucky, Lexington, KY **August 2018-Present**
Tau Beta Pi Tutor; Tutored various Computer Science 100 to 400-level courses.

- Tutored programming intro courses (C/C++, Python), as well as systems programming

University of Kentucky, Lexington, KY **July 2018-August 2018**
ITS Intern; summer intern with the University of Kentucky ITS department

- Wrote knowledge base articles, proofread articles, converted articles to HTML for upload

University of Kentucky, Lexington, KY **January 2018-May 2018**
CS 470 Grader; grader for the Spring Semester Introduction to Operating Systems course

- Graded students' written assignments and C/C++ programs

Valvoline, Lexington, KY **October 2017-December 2017**
Web Developer; contributing member of Valvoline Instant Oil Change development team

- Helped develop and fix bugs for several Valvoline web applications
- Worked with the development team using the Agile methodology

Tata Consultancy Services, Cincinnati, OH **August 2016-July 2017**
Performance Engineer; contributing member of performance engineering and testing team

- Create, revise, and test scripts on HP Loadrunner used to test the performance applications
- Write technical documentation for client applications and the process of how to test them

Ashland, Inc. Lexington, KY **August 2014-May 2015**
Information Technology Co-op; contributing member of Web Development team.
- Continuation of previous co-op experience

Tata Consultancy Services, Cincinnati, OH **May 2014-August 2014**
Software Engineer Intern; contributing member of Business Solutions Unit
- Developed dashboard using MicroStrategy for TCS to preview to healthcare companies
- Volunteered for TCS IT high school camp and worked as a team lead for six students

Ashland, Inc. Lexington, KY **January 2014-May 2014**
Information Technology Co-op; contributing member of Web Development team.
- Worked with Java and the Spring framework to create several web applications
- Recreated existing Valvoline web application using new tools such as PrimeFaces and Maven
- Created and edited databases using Microsoft SQL Server
- Wrote technical documentation for developed applications

University of Kentucky HealthCare, Lexington, KY **May 2013-August 2013**
Information Technology Intern; contributing member of Web Development team
- Developed online form to be used in a clinical setting and web applications in .NET
- Wrote technical documentation and workflow diagrams for applications

Projects:

Independent Study – Story generation with Machine Learning **Fall 2018**
- Independent study with Dr. Harrison at the University of Kentucky
- Developed a sequence to sequence network to generate sentences
- Ran experiments and comparisons for different word embeddings
- GitHub repository: https://github.com/zembrodt/story-generation

Lexmark – Cafe Data Project (cafe-predicting.github.io) **Spring 2016**
- Senior design group project with Dr. Piwowarski at the University of Kentucky
- Found trends using machine learning within data collected from Lexmark's cafeteria
- Created dashboard to present the graphs and trends our team found within the data
- GitHub repository: https://github.com/cafe-predicting