## DevOps in Education: A Virtually Non-Existent Course

by Emma Sax



#### **Disclaimer**

Everything I say today is from my perspective and based on my personal experience. I do not intend to represent all recent college graduates, nor all workplace environments.



#### My background

- Attended Saint Paul Conservatory for Performing Artists
- Participated in 17
   plays and shows
   during high school





- Attended University of Minnesota, Morris (UMM) in 2013
- Graduated from UMM this past May with a degree in Computer Science

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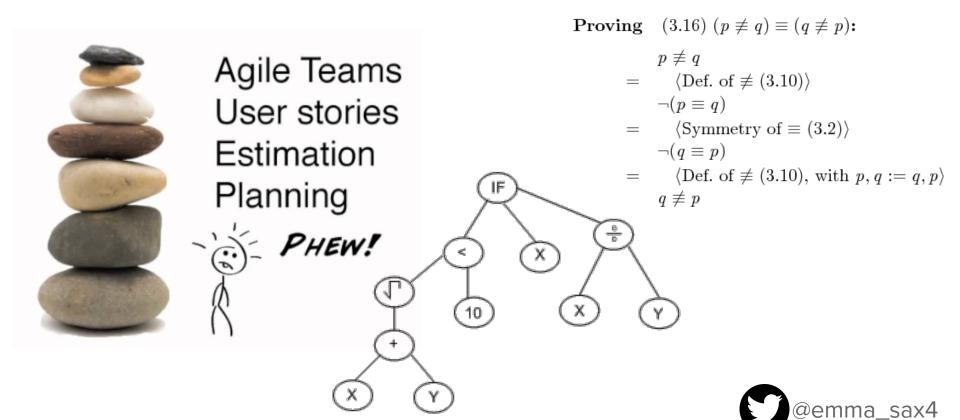




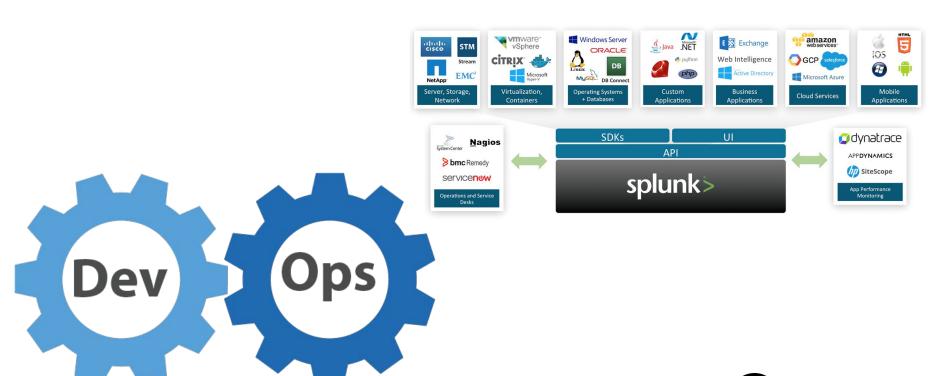
#### **Courses I took at Morris**

#### **Loop Flow Diagram** Types of Data Structures DATA STRUCTURE Loop False condition\_expression LINEAR NON-LINEAR True Loop code block TREES ARRAYS STACK QUEUE GRAPH LINKED LIST Statement after loop block

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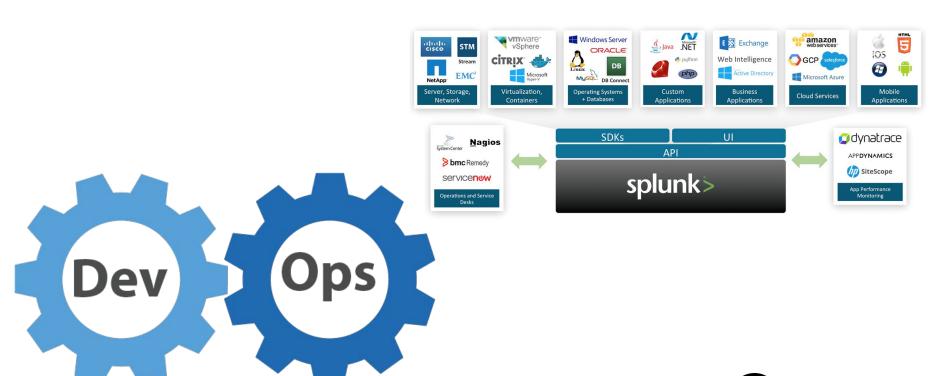


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## Why don't they teach Operations courses? Why is Operations hard to teach?





#### My first hunch:

If you work in Operations, you may have to wake up at 2am to try to fix something you don't know how to fix when everything's like this:





#### **More realistic hunches...**

- 1. Every workplace works differently.
- 2. It can be difficult to mimic real-world scenarios in a classroom environment.
- 3. Operations, and especially DevOps, is all about constant learning.



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#### Constant Learning in DevOps

Discovering and experimenting with 3rd-party systems

Expanding your knowledge base

Vetoing risky code changes

Operating your entire platform.... yikes

Providing your developers with helpful tools

Spreading communication and collaboration



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#### In summary...

DevOps is hard to learn unless you have some prior background knowledge.

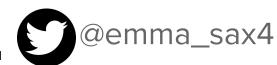




# Is there a way to better prepare our students for a DevOps career & culture?

### Thank You!





\* My GitHub username has changed as of May 2, 2019. The YouTube recording of this Ignite talk uses my old GitHub username. The username here has been updated.