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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- Full-time member of Platform Operations team working in the DevOps fashion



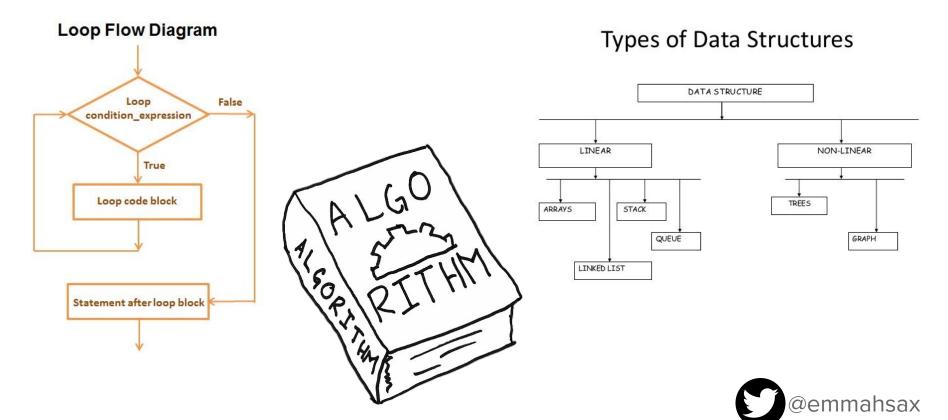


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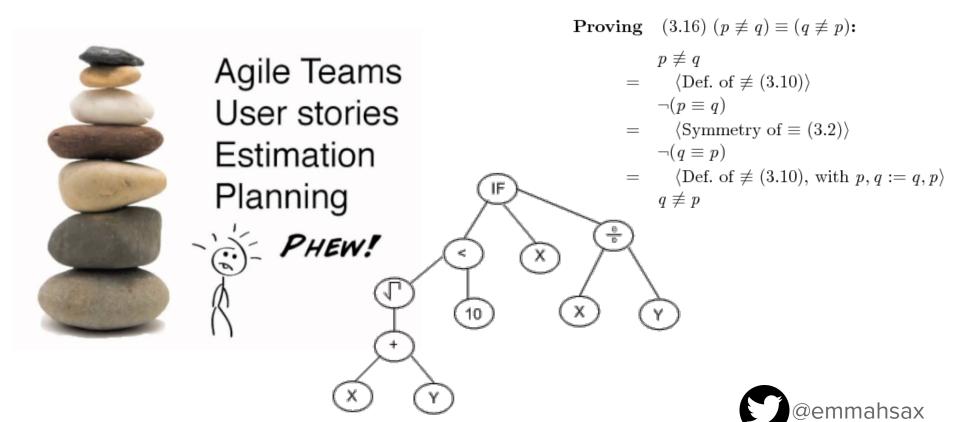




Courses I took at Morris



Courses I took at Morris



Courses I didn't take at Morris



Courses I didn't take at Morris



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 Twitter and GitHub usernames have changed as of February 20, 2021. Recordings of this Ignite talk uses my old Twitter and GitHub usernames. The usernames here has been updated.