AUTOMATION AS A LOFTY GOAL

CHRIS LUCIAN

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CAN YOU AUTOMATE EVERYTHING YOU DO TODAY?
WHAT IS THE LOW HANGING FRUIT FOR AUTOMATION?
BEFORE AUTOMATING;
VALUE STREAM MAP!
HOW DOES A CULTURE OF AUTOMATION MAKE YOU MORE EFFECTIVE?

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WWW.CHRISLUCIAN.COM
WHAT SHOULD NOT BE AUTOMATED?
HOW MUCH TIME DO WE SPEND ON AUTOMATION?
STORY:
SUPPORTING PRODUCTION
80% OF DEVELOPER TIME RUNNING SCRIPTS TO CHECK PRODUCTION IS NOT BROKEN
STORY
WEBSITES
WITH CRUD
OPERATIONS
@s Christophe Lucian
www.chrislucian.com
STORY: INTRODUCTIONS TO TEAM OPINIONS

Open Door Policy / Director Kanban

Welcome to the Software Development Department
Published on 5/14/2019 by Chris Lucian

Short Intro to a few things to pay attention to in the department.
ESTIMATION
DRIVING ABSENCE
OF AUTOMATION

Most of developer time is spent writing repetitive code.
WHAT ARE YOUR STORIES. DISCUSS!

- How do you repeat yourself?
- What is a habit that could be automated?
- What about what you do adds value and cannot be automated?
- Pick the top story for the table and share with the audience?

5 minutes

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## PRACTICAL DEMOS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Don’t...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source Control</td>
<td>Zip and email yourself the code!</td>
</tr>
<tr>
<td>Snippets</td>
<td>write that boiler plate</td>
</tr>
<tr>
<td>Domain Abstractions / Design Patterns</td>
<td>use the snippets!</td>
</tr>
<tr>
<td>Refactoring Tools</td>
<td>rewrite the code</td>
</tr>
<tr>
<td>Infrastructure as Code</td>
<td>configure your infrastructure</td>
</tr>
<tr>
<td>CI/CD</td>
<td>deploy your applications</td>
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<tr>
<td>Automated Testing</td>
<td>test your libraries</td>
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<tr>
<td>Automated UI Testing</td>
<td>test your application</td>
</tr>
<tr>
<td>Digital Information Radiators</td>
<td>repeat yourself or investigations</td>
</tr>
<tr>
<td>Machine Learning</td>
<td>make decisions</td>
</tr>
<tr>
<td>Deep Learning Auto Complete</td>
<td>choose what to type</td>
</tr>
</tbody>
</table>

Proveedor: www.chrislucian.com

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GIVEN THESE EXAMPLES WHAT CAN YOU AUTOMATE? DISCUSS!

- You can automate your mouse clicks
- You can automate your decision making
- You can automate anything you do on a regular basis

Discuss with your table and Pick the top items for automation with these tools. Pick the solution that would save the most time and share.

10 Minutes
ADVICE: DON’T JUST AUTOMATE; ITERATE!

There is such a thing as too much automation!

It’s a function of the Satir change model.

Our automation must be iterative!
SO WHERE DO WE GO IF THESE THINGS ARE ALL AUTOMATED? WHAT’S NEXT?
WHAT ABOUT WRITING CODE AT ALL?

I SHOULD BE ABLE TO WRITE TESTS AND THE CODE GETS WRITTEN BY THE COMPUTER TO MAKE THOSE TESTS PASS…
EVOLUTIONARY ALGORITHMS & DEEP LEARNING

• Consider GitHub and other public data repositories as learning material.

• It is very possible we will be writing test cases and the software will be written by the ML algorithms.
AFTER THAT?

• Automate the creation of the next slide in this presentation! :)

• No seriously, Power Point now gives you design ideas and picks icons based on AI!
AUTOMATION AND CULTURE. DISCUSSION

Discuss with your table what this type of automation will do to the culture of your teams.

How will your teams become resilient to more and more of their work becoming automated?

What benefits does this type of thinking have?

What downfalls do you see?

Pick top 3 insights and tell the audience.
KEY TAKEAWAY

• Keep automation front of mind and iterate toward better!

More on everything I am interested in at www.ChrisLucian.com

TODAY WE LEARNED:

• Practical implementations of Automation as a Habit
• How to Implement a strict workflow that includes automation as a habit
• How to Analyze the impact of a habit of automation on your process

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