

THE BIG PIECE OF THE POST-LAMP PIE



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- › M.S. Rochester Institute of Technology, New York on a Fulbright
- › Software Engineering/Product Development areas
- › Stemming From Her stemmingfromher.com
- › Ericsson



WOMEN IN DATA SCIENCE
MARCH 7, 2018
@ LUMS, LAHORE



MARIA SHOAIB
Fulbright Scholar &
Founder of "Stemming from Her"



ABOUT ▾ CONFERENCES ▾ CALL FOR PROPOSALS ORGANIZERS



SAMAR HAIDER



SHAMYL BIN MANSOOR
Co-founder & CTO
LearnOBots

Making Robots with Python



MARIA SHOAIB
Asst. Product Manager
Ebryx

Python and Machine Learning 101: the road more
aspired to be traveled but lesser understood.



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OVERVIEW



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- › Revolution/shift in the software status quo...
- › Key drivers?
- › Pieces of the fresh post-LAMP pie
- › How JS contributes?
- › Resources

THE LANDSCAPE OF THE SOFTWARE STACK



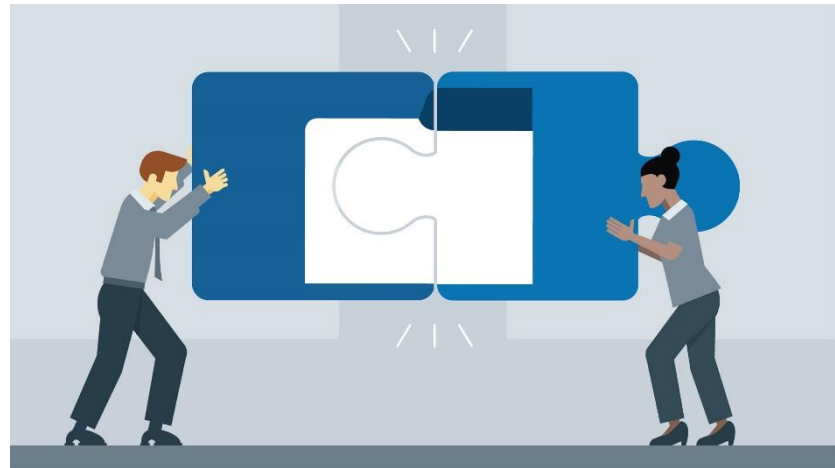
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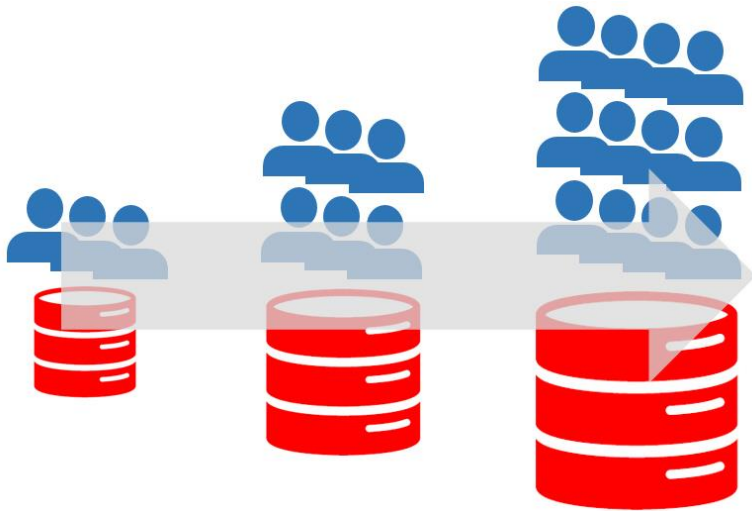
WHAT ARE THE KEY DRIVERS OF THIS SHIFT?



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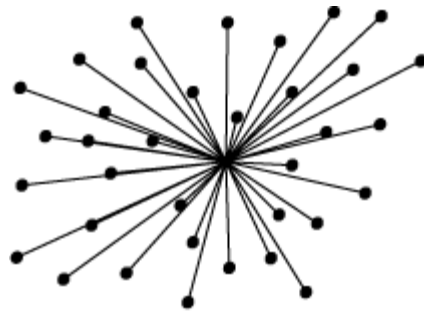
WHAT ARE THE KEY DRIVERS OF THIS SHIFT?



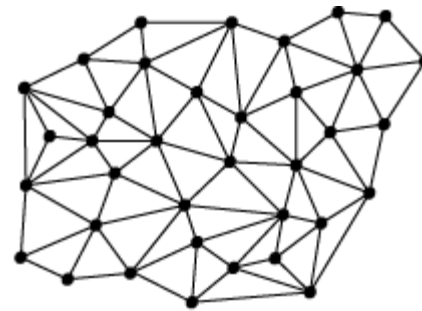
WHAT ARE THE KEY DRIVERS OF THIS SHIFT?



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centralised



distributed

WHAT PLATFORMS SHAKE UP THE LANDSCAPE?



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- › JavaScript
- › AWS
- › Azure
- › EC2
- › PostgreSQL
- › Ruby
- › Python

HOW JAVASCRIPT CONTRIBUTES ?



- › One JavaScript but, different technology stacks
- › Replacement for the “P” (PHP) in LAMP
- › Backbone, Express, Koa, Meteor, React, and Angular



HOW JAVASCRIPT CONTRIBUTES ?



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Back End

   Or     KeystoneJS

Database

  Or   PostgreSQL  CouchDB  cassandra

WHAT PROBLEM IT SOLVES? THE USE CASES



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- › Build MVPs
- › P2P apps and services
- › IoT
- › eCommerce solutions
- › Fintech
- › Enterprise web solutions

WHEN TO GO FULLSTACK JAVASCRIPT



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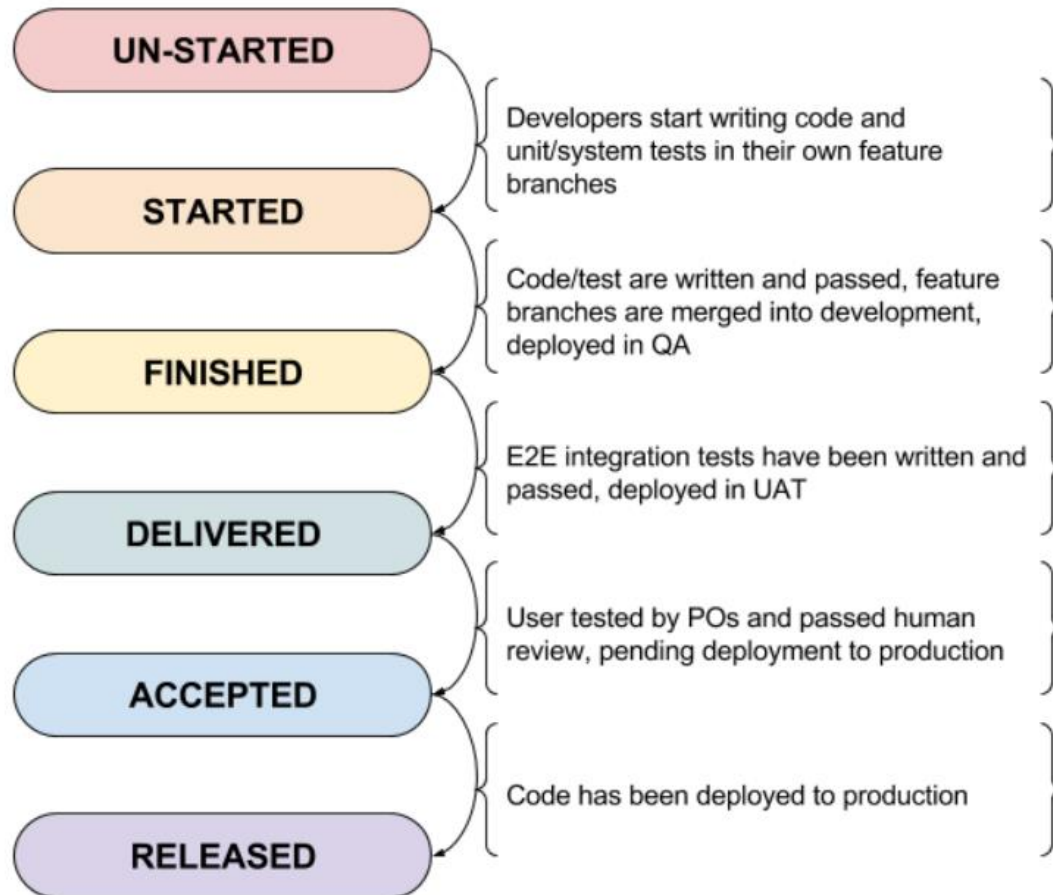
Business Perspective

- › Code re-use
- › Process agility
- › Cost of hiring
- › Team efficiency
- › High performance/speed
- › PayPal published a comprehensive [report](#)
- › By 35 percent

WHEN TO GO FULLSTACK JAVASCRIPT



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WHEN TO GO FULLSTACK JAVASCRIPT



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Developer Perspective

- › Talent
- › Knowledgebase
- › Open source

SMART USAGE



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- › Drawbacks of every tool in the stack combined
- › Relatively young technologies
- › Computation-heavy back end
- › Monolithic vs. Microservices



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THANK YOU!

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A FEW RESOURCES



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- › <https://www.javascript.com/resources>
- › <https://eu.udacity.com/course/intro-to-javascript--ud803>
- › <https://www.theodinproject.com/>
- › <https://knockoutjs.com/>

MORE INFORMATION AND REFERENCES



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- › For more details on other resources
 - <https://opensource.com/article/17/12/learn-javascript>
- › References for figures/images
 - <https://www.lynda.com/Business-Skills-tutorials/Managing-Project-Integration/180275-2.html>
 - <https://blogs.oracle.com/r/data-science-maturity-model-scalability-dimension-part-8>
 - <https://www.hrisspayrollsoftware.com/hris-customization-tips/>
 - <https://medium.com/@shyamshankar/centralized-ledgers-vs-distributed-ledgers-layman-understanding-52449264ae234>
 - <https://www.altexsoft.com/blog/engineering/the-good-and-the-bad-of-javascript-full-stack-development/>