

A person is floating on their back on the surface of the ocean. Below the surface, a shark's open mouth is visible, showing sharp teeth. The scene is set in clear blue water.

When Containers Attack!

Anne Currie
@microscaling
@anne_e_currie

microscaling
systems



#1

Ω

Divers(ity) vs Monoculture

“Division of labour has caused a greater increase in production than any other factor.

This diversification is greatest for nations with more industry and improvement”

Adam Smith
“The Wealth of Nations” 1776

“ten persons, therefore, could make among them upwards of forty-eight thousand pins in a day. Each person, therefore, making a tenth part of forty-eight thousand pins, might be considered as making four thousand eight hundred pins in a day. But if they had all wrought separately and independently, and without any of them having been educated to this peculiar business, **they certainly could not each of them have made twenty, perhaps not one pin in a day; that is, certainly, not the two hundred and fortieth, perhaps not the four thousand eight hundredth part of what they are at present capable of performing**, in consequence of a proper division and combination of their different operations”



Specialists

@anne_e_currie

Labour =

People (roles)

+

Technology

(Organised with process)

**OK, so tech & role
diversification was good
during the Industrial
Revolution.**

**But what about the
Software Revolution?**

Roles

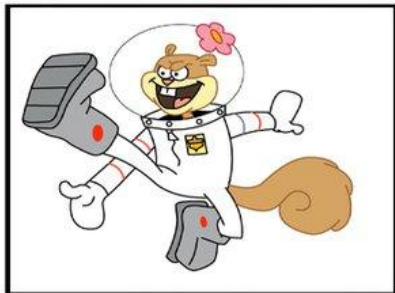


The full stack engineer

MY ZOMBIE APOCALYPSE TEAM



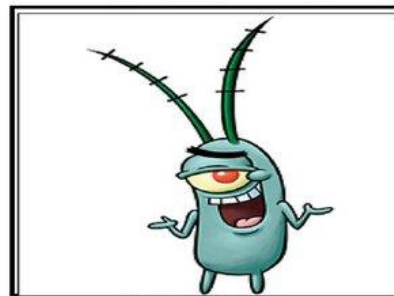
Team Leader



brawler



weapons expert



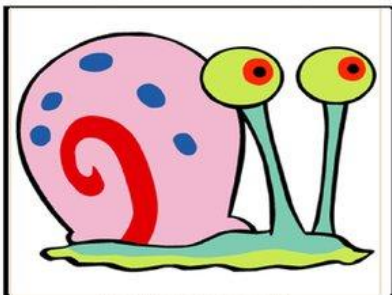
brains



medic



speed fighter



mascot



Guy who dies first

Or is the the full stack engineer required?

Technology

Specialist tech?

or

One stop shop?

The image is a movie poster for 'MEGA SHARK VERSUS MECHA SHARK'. It features a large, realistic shark on the left and a mechanical shark on the right. The background shows a city with buildings and a small boat in the water. The title 'MEGA SHARK' is in large green letters, 'VERSUS' is in smaller white letters, and 'MECHA SHARK' is in large white letters. The overall scene is filled with fire and destruction.

MEGA SHARK

VERSUS

MECHA SHARK

In Search of the Killer
Technology

PLAY FEATURE

SCENE SELECTION

BONUS FEATURES

TRAILERS

Conference speakers
are professional
enthusiasts



@anne_e_currie

Containers
Microservices
Unikernels
Serverless

Container Specialism

- Common packaging format & interface -> deployment speed, iterability, testability, team onboarding
- Fast instantiation/shutdown -> ops automation

**There is no perfect
technology for everything**



Not what managing specialists looks like

**Are cloud services our
industrial revolution
specialists?**

An underwater scene featuring several large Great White Sharks swimming around a metal cage. Inside the cage, several divers are visible. The water is a deep blue, and many smaller fish are scattered throughout the scene. The text 'GUADALUPE GREAT WHITE SHARKS' is overlaid in the upper left quadrant, with a small shark silhouette between the words 'GUADALUPE' and 'GREAT WHITE'.

GUADALUPE
GREAT WHITE
SHARKS

Lock-in is not always the scariest option

@anne_e_currie

Tech diversity key to industrial revolution ->
+1000x productivity thru specialisation

Hard with evolving requirements or small
companies

Q: Is modern equivalent cloud services?

A small white boat is centered in the middle of a vast, dark blue sea. The water has a textured, wavy surface. The sky is a pale, clear blue. The word 'THE' is written in large, white, bold, sans-serif capital letters to the left of the boat.

THE

END