Cognitive Apprenticeship in Action



Agenda

01 I'm on-call for WHAT?!

02 Alert Triage Hour of Power

03 Findings

04 Cognitive Apprenticeship

05 Outcomes



I am on-call for WHAT!?

01





















On-Call Knowledge Areas





Telemetry



Business Context



The System

- Application
- Infrastructure
- Release Process
- Architecture

Available Telemetry



- Traces? Events?
 Logs?
- Instrumentation
- Querying
- Tags/Attrs

Business Context



- Tool sprawl
- Alert hygiene
- Who owns what









"[Alert Triage] is the most valuable meeting on my calendar" - paiger<u>duty</u>

Alert Triage Hour of Power

Meeting Intention & Roles	10m
Investigate alert	40m
Wгар ир	10m







Facilitator





Driver

Roles







Facilitator



















Agenda

Meeting Intention & Roles















Alert Triage Hour of Power

Meeting Intention & Roles	10m
Investigate alert	40m





ACK the "page"

Alerts 1	Status Updates	Timeline	Similar Inc	idents
ALERTS				
	No active table fil	Iters		
🗸 Resolv	е			
St	atus 🌲 🗸	Severity	¢ ∇	Summary 🗸







Verify then trust the alert

```
# 6h latency burn rate
    1 -
      (sum(rate(trace call duration bucket{to svc="ordering-svc",
to op="/ordering.Ordering/ListOrders", le="0.5"}[6h])))
      (sum(rate(trace call duration count{to svc="ordering-svc",
to op="/ordering.Ordering/ListOrders"}[6h])))
      > (6 * 0.0009999999999999432)
```



Investigate





Alert Triage Hour of Power

Meeting Intention & Roles	10m
Investigate alert	40m
Wгар ир	10m





Alert Recommendations



On-call Onboarding After

Alert Triage: Support x2

> * Alert Triage: Driver




Alerts are not precious! - apk



















Alerts are not precious



Alerts are not precious





Alerts are not precious







Alerts are not precious



<u>Learning</u> is a worthy goal







Alerts are not precious



<u>Learning</u> is a worthy goal

Active listening is tricky



Alert triaging is not an innate skill





Cognitive Apprenticeship



!mentorship







Apprentice -> Expert

Modeling	Coaching	Scaffolding	Articulation	Reflection	Exploration
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Modeling







Coaching







Scaffolding







Articulation







Reflection







Exploration















Modeling	Coaching	Scaffolding	Articulation
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Modeling	Coaching	Scaffolding	Articulation	Reflection
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Modeling	Coaching	Scaffolding	Articulation	Reflection	Exploration
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Real Results*

1000% uptime

-50% unactionable alerts

100% runbook coverage

\infty reliability

Real Results

00% U

-50% able alerts unact.

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100% runboo vve Je

Joility

IC meets VP: Explaining Incident Mgmt



Mr. VP

Мг. ІС

We invested a lot in Incident Management last quarter and incidents went **up...** Is that expected?

Mr. VP

Мг. ІС

It's not that we're finding more incidents, it's really more that we're trying to handle them better and the investment really helped the team to do that!

Mr. IC

Mr. VP

Really? Here it says that not only did we have more incidents but they also lasted longer on average

Mr. VP





What's the ROI of Alert Triage Hour of Power?

Really Real Results

3 Years strong15-20 Regular attendees

EPD Expanded to PM & Designers

0% Reduction in spammy alerts





Margaret Gorguissian · 1:56 PM

And people consistently call it the best meeting at Lightstep -- your legacy lives on!!!

New engineers are always so stoked about it :D











Thanks!





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in

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