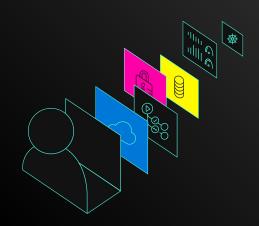
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# GOTO Copenhagen 2023

**#GOTOcph** 

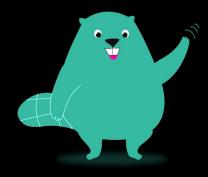




## Ramp up, Fan out

The Tools Spotify Uses to Onboard Engineers and Encourage Career Mobility

Helen Greul
Backstage Engineering Lead @Spotify



Bowie the Beaver

Developer at Spotify



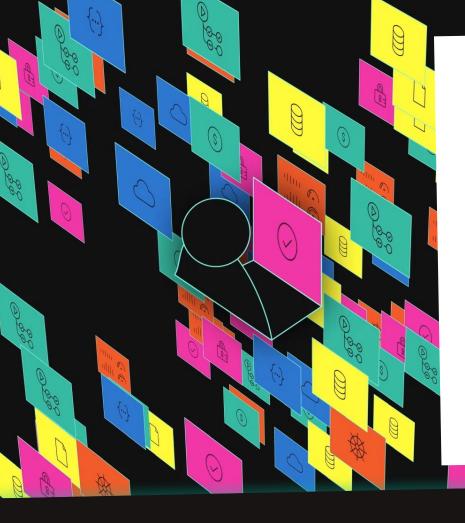
Helen Greul

Eng Lead - Backstage
@Spotify

### A few disclaimers...





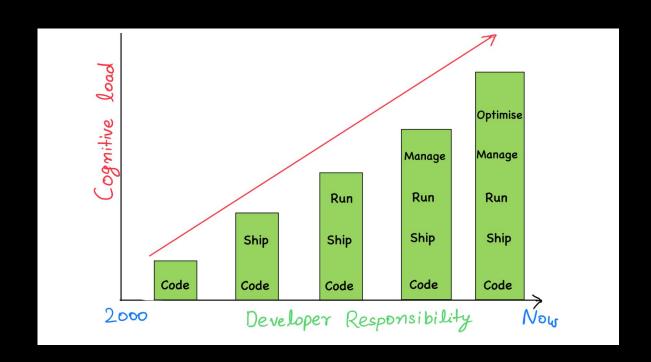


# Software is still eating the world ...

### ... but with new requirements

- Thousands of request per second to millions
- Monoliths to 1000s of microservices
- On-prem to mixed and multi-cloud
- Singular databases to Big Data
- Do-it-yourself to Saas Explosion
- 100s of frameworks to 10000s
- Heuristics to Advanced ML systems
- ISO 9000 to a regulatory renaissance
- Teenage hackers to state-sponsored cyber threats
- ..

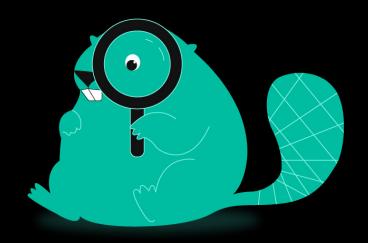
### You build it you run it





### Challenges affecting DevEx:

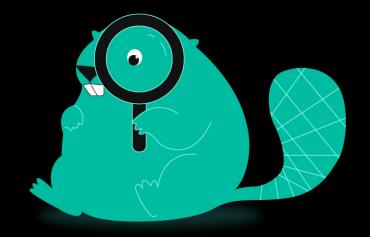




### Challenges affecting DevEx:



Growth and connectivity



### State of Engineering onboarding



8 months to max productivity



23% Leave < 1 year



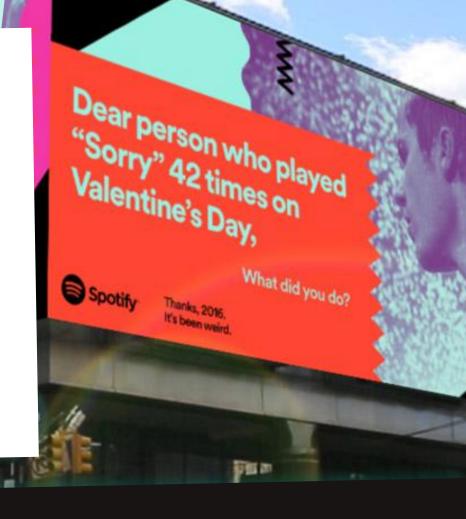
22% receive no formal onboarding

# Let's take a trip in the way back machine...

Spotify was in **hyper-growth mode**, hiring engineers at a breakneck pace

But our developer productivity metrics weren't getting better despite all the new hires

- **time-to-10th-PR** > 60 days
- **buddy system** had problems
- self reported productivity score decrease





Backstage

Q Search

Explore

\_ Manage

Data

⊕ ML

**Docs** 

Create

· · · More

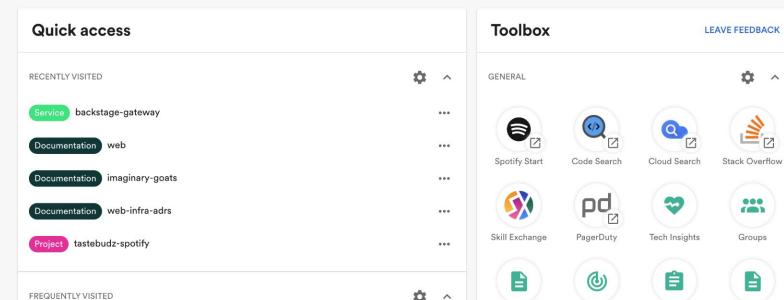
**=**+ Add Shortcuts

WG Web Golden P...

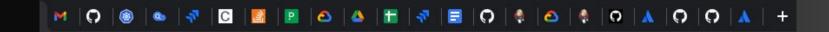
Ba backstage-gat...

< Unpin Sidebar

**A** Experiment













# An open platform for building developer portals

**Created at** 

**Spotify** 

**Donated to** 



### Here is what we did





Golden
Path
tutorials



Software templates

From 0 to Shipping it!



### Welcome to your Virtual Spotify Onboarding External Inbox x







noreply-workday spotifymail <spotify@myworkday.com>

Tue, Aug 10, 2021, 8:05 AM











Hi there,

In the coming weeks, you will attend Intro to the R&D Community Day and possibly Engineering Bootcamp and Data Science Bootcamp (depending on your role).

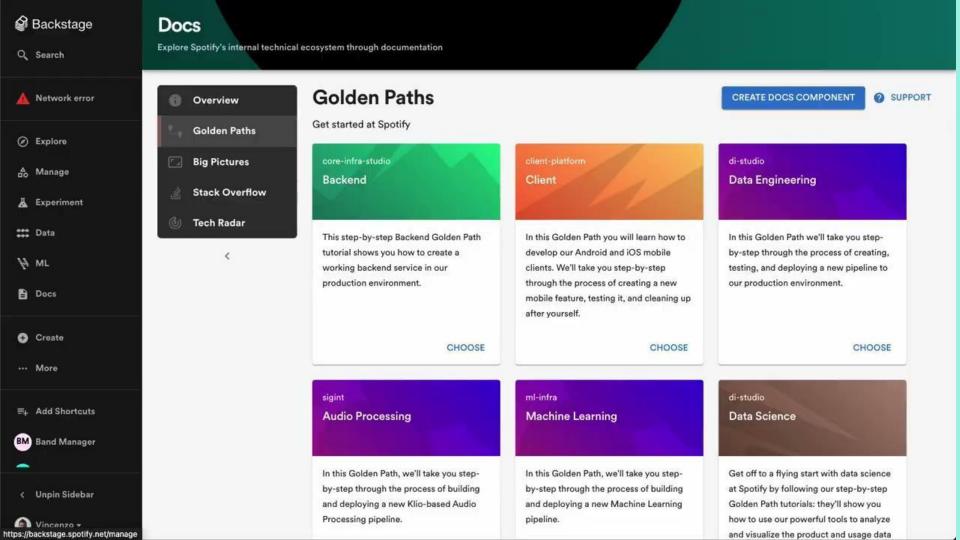
In order for you to properly prepare, please make sure to complete the following:

#### ALL:

- Pre-work for R&D Community Onboarding (Please note that you will need to click the link once, close the window, and click the link again in order to be redirected to the correct page).

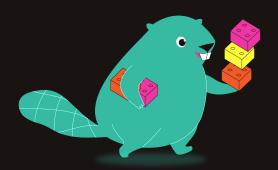
#### **ENGINEERS ONLY:**

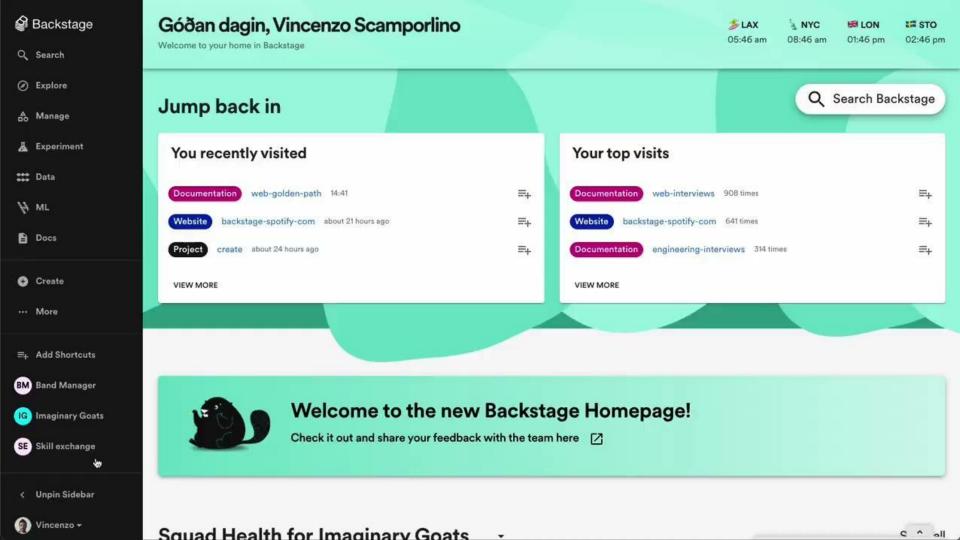
- Golden Path Tutorial Please discuss with your manager which tutorial you should complete in preparation for Engineering Bootcamp.
- Should you encounter and issues with the Golden Path prep work or have any questions, please have a look at this document to know who to reach out to.

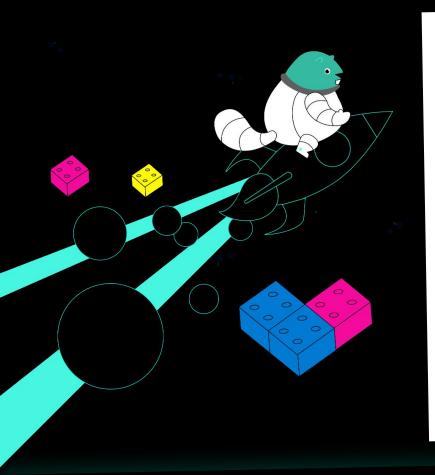


### Standards can set you free

- standards by ease vs standards by constraint
- best practices included
- focus on high value activities







### On Day 1:

- Setup dev environment
- Create a new service from scratch
- Deploy to production
- Setup metrics, alerting and Monitoring
- Expose your service to the world by changing the **DNS** in production

### Feeling onboarded?

"For me, it's when I'm independent to do stuff on my own. A feeling of autonomy"

### Feeling onboarded?

"For me, it's when I'm independent to do stuff on my own. A feeling of autonomy"

"Caring about the people that are just walking in the door right now – I think that just speaks volumes to the culture."

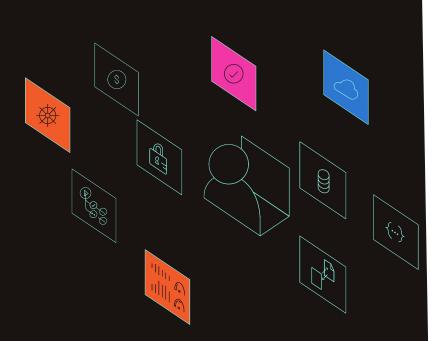
### Feeling onboarded?

"For me, it's when I'm independent to do stuff on my own. A feeling of autonomy"

> "My Spotify onboarding has been the best out of all companies I've worked for"

"Caring about the people that are just walking in the door right now – I think that just speaks volumes to the culture."





# Opportunities to gain new skills and new experiences

- How do I get the exposure to the new tech stacks/groups?
- What's the best way to pick up new skills on the job?
- How do I find someone who can help?

# Harnessing Hack energy to create Skill Exchange

An internal marketplace for on-the-job learning opportunities including mentors, hacks, embeds, and more

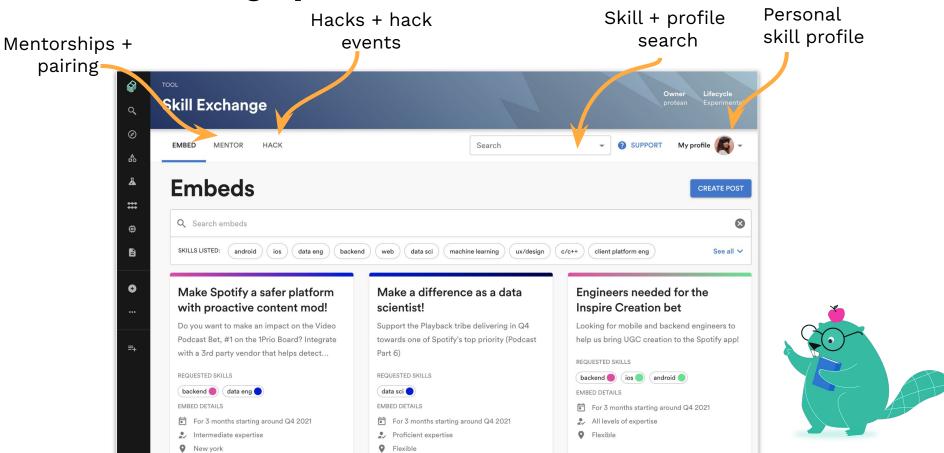


### **Benefits:**

- Share your own and seek out other's expertise
- ★ Gain new and deepen existing skills
- Foster meaningful connection and collaboration

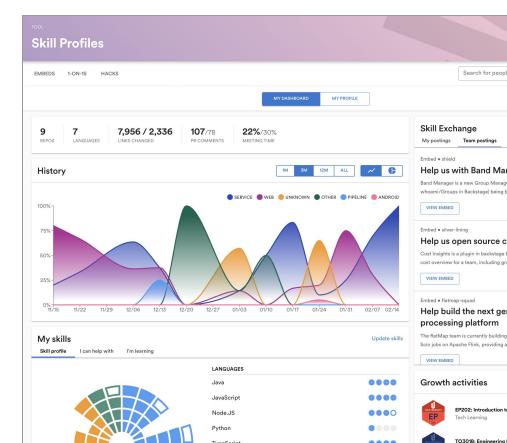
75%
of R&D uses Skill
Exchange monthly

### Skill Exchange product suite

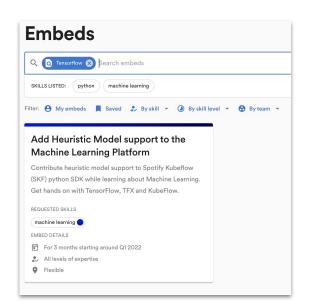


### Reflect on and share your expertise with others

- Input skills to see your "shape" and what you're learning
- Use skill scales to give yourself an objective proficiency level
- View personal GHE data
- View courses you've taken

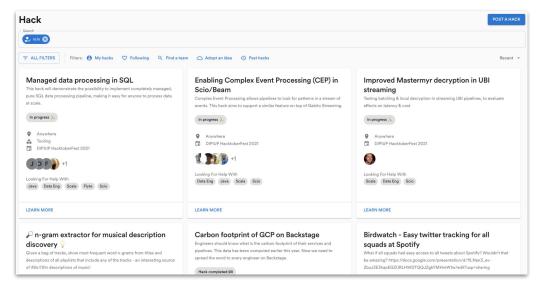


# Find opportunities to gain new skills and new experiences



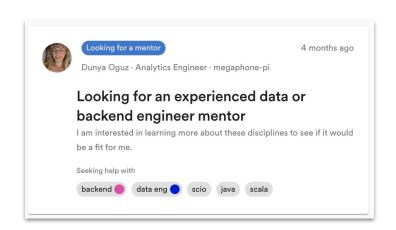


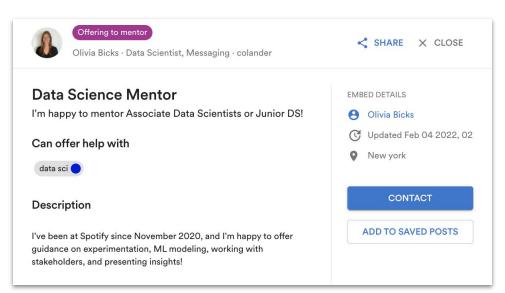
### Less likely to leave the company within one year

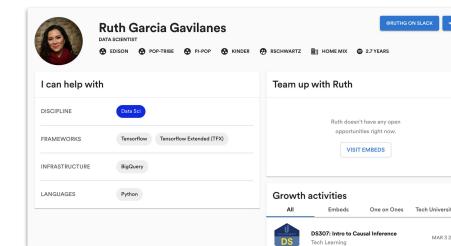


### Seek/offer mentorship

- Serve as an expert
- Mentor others
- Add areas of expertise to your profile







### **All Learners**

**Attrition** 



15%

less likely to leave the company after one year

Career Growth



21%

more likely to earn a promotion within one year

**Productivity** 



more likely to report high productivity

Flow



17%

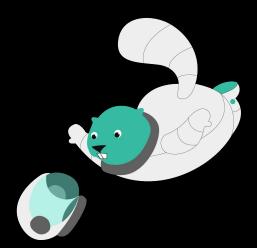
more likely to report a high frequency of achieving flow

Velocity



%

more likely to report satisfaction with their velocity



### The Spotify Plugins for Backstage bundle



**RBAC** 

Control access to actions and data in Backstage



### Soundcheck

Ensure quality, reliability, and alignment of software development with codified checks and guidance



### **Skill Exchange**

Build an internal marketplace for learning and growth opportunities within R&D



**Pulse** 

Collect data that drives continuous improvements to your R&D tooling, processes, and culture



### Insights

Identify, understand, and benchmark Backstage usage trends



### Join the **Backstage** community



https://backstage.io

https://backstage.spotify.com

### Happy Developers write Happy Code!

- Focusing on developer onboarding and career mobility is a worthwhile investment
- Focus on the measurable goals
- Talk to your engineers early and often



## **Questions?**



goto;

# Don't forget to rate this session in the GOTO Guide app