



Building a Diverse SRE Talent Pipeline

Hey, we're Salim and Alex!

















Building a Diverse SRE Talent Pipeline

Our action-packed 35 minutes





Key Takeaways

- 1) Core elements of a successful training program
- Resources to administer and support the program
- 3) The impact of training programs on diversity
- 4) How you can leverage what we learned building the MLH community & Fellowship



MLH powers the largest community of early career developers.

115,000+

Annual Community
Members

625,000+

Total Community Members 1/3

Of US CS grads are in the MLH community







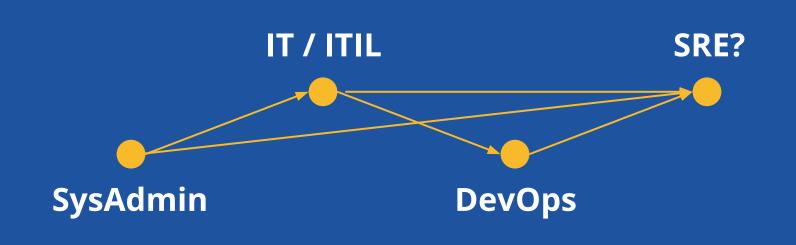


SRE hiring presents multiple layers of challenges.

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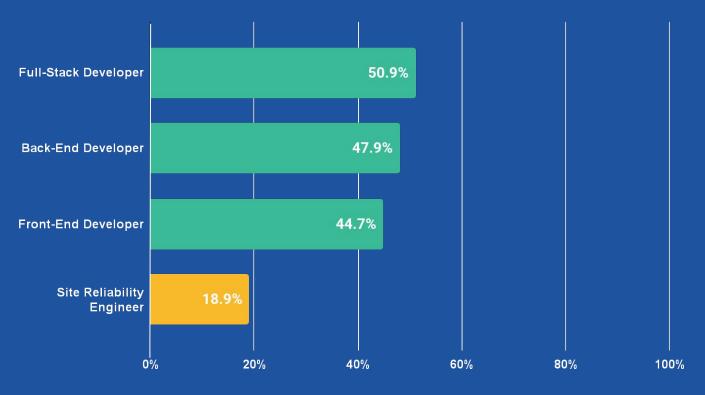


SRE still isn't mainstream with early-career developers.





The SRE Interest Gap



% Reporting Interest n = 6,165 respondents









How can we make a difference?

- ★ Look for candidates everywhere
- ★ Assess for skills and aptitude
- ★ Provide Fellowship opportunities to applicants
- ★ Upskill your team with on-the-job training



What makes an SRE?

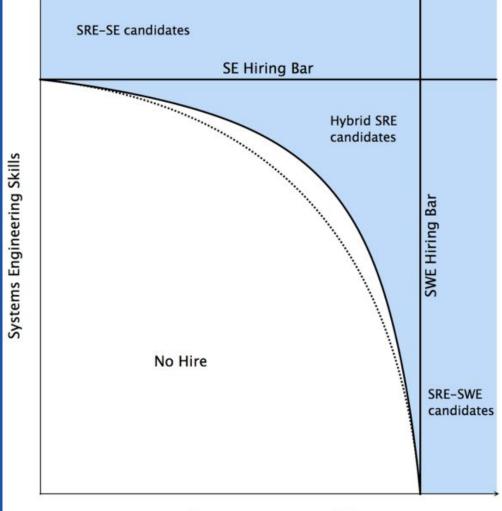


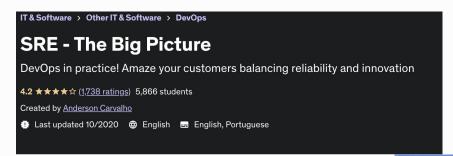
Illustration from "Hiring Site Reliability Engineers" https://www.usenix.org/system/files/login/articles/login_june_07_jones.pdf

Software Engineering Skills

At Google we've implemented different programs each focused on a specific aspect of our pipeline.

Program	Length	Focus Area	Requirements
Mission Control	6 months	SRE	Must already be employed at Google
Google Internship	10–12 weeks	SRE	Must be in a degree program
Google Apprenticeship	18–24 months	SRE	_

Other industry programs aren't always accessible.



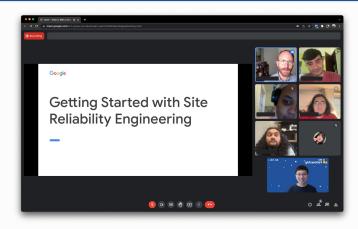
What you'll learn

- ✓ The origin of SRE
- SRE concepts like: SLO, SLA, SLI, Error Budgets...
- What a SREngineer does and what you need to become one
- ✓ Why SRE is important
- ✓ The SRE principles and practices
- ✓ SRE team models





Build a more diverse SRE pipeline with the next generation of developers.



Good for students. Good for you.

Good for the future of tech.



How does it work?





Smart Matching



Technical Mentorship



Program Management



Benefits of the Fellowship



Diversity & Inclusion



Broadening Reach



Overhead Management



Cost & Ops **Efficiency**

2.5x More gender-diverse than average CS Classroom

>90% Of participants outside of top
10 recruited universities





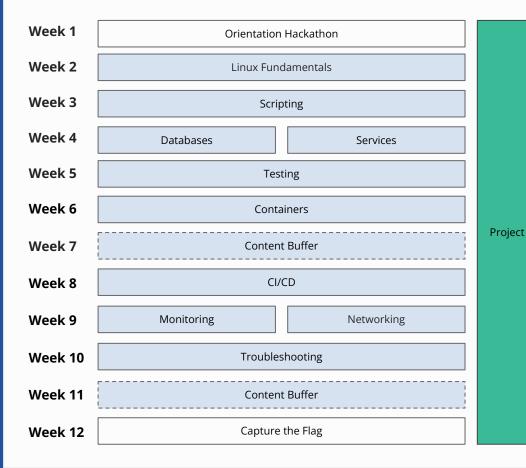


The pod structure provides a communal learning experience.



Combine traditional curriculum with a hands-on project to build and reinforce key SRE skills.

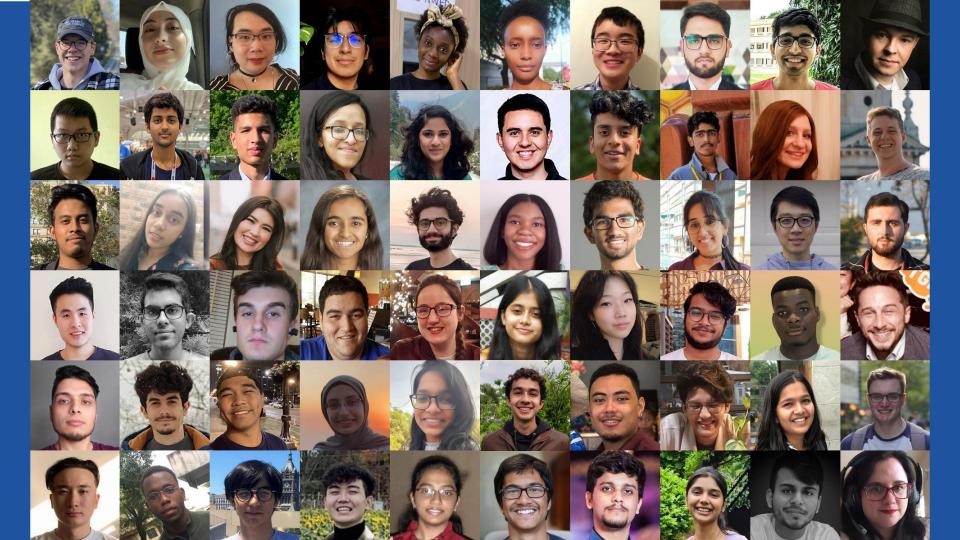
Fellowship SRE Curriculum



Multiple layers of mentorship and support enhance Fellow learning and experience.

Expert SREs MLH Pod Leader & Mentor Peer-to-Peer





How do we measure success?

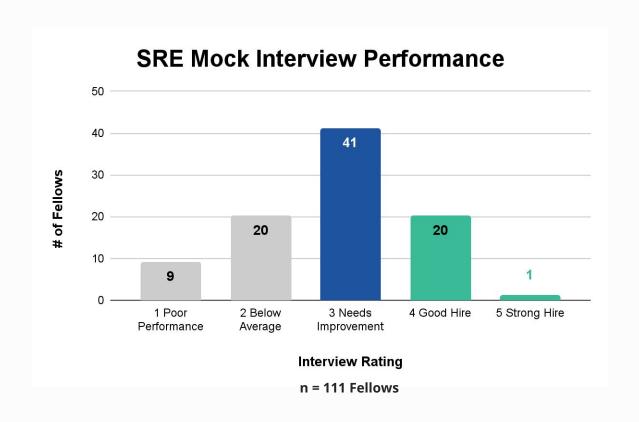
Focus Area	Success Definition		
SRE Knowledge	Do program graduates have a deeper understanding of the day-to-day responsibilities of an SRE and what a career in the field looks like?		
SRE Interest	Do program graduates have a new or continued interest in pursuing a career in SRE?		
SRE Career Readiness	Do program graduates have the foundational skills they need to launch careers in SRE?		



At the end of the program, graduates are more prepared for a career in SRE.

Prompt	Week 1	Week 12	Delta
I have a good understanding of what an SRE does day-to-day.	49% agree	95% agree	+46%
I know what SRE looks like as a career path.	62% agree	96% agree	+34%
I know what skills I need to succeed as an SRE.	53% agree	97% agree	+44%
I think of SRE as a good career path for me.	71% agree	83% agree	+12%

Regular coding challenges and multiple mock interviews prepare Fellows to launch SRE careers.



23.1%

Of Fellows passed final mock interview

45.1%

Of Fellows in position to pass

Fellow Spotlight

1'm sad I won't be joining for the Fellowship for another round. However, I'm even happier to share that the reason I won't be coming back is because I received a full-time internship offer at Intel. I'll be working with DevOps tools, and there's no way I would have received this offer if I hadn't been a part of the Fellowship.

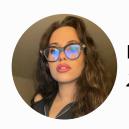


Han Rodríguez 2022 Fellowship Graduate

Fellow Spotlight

Before the Fellowship, I wouldn't have considered myself ready for roles beyond SWE.

As part of the program, though, I had access to the resources and mentorship I needed to prepare for SRE roles, and now I'm starting a DevOps and Cloud Engineering internship!



Roa Brahimi 2022 Fellowship Graduate



This program opens the door for candidates of all backgrounds.



Crafting an SRE Training Program



Create a communal learning environment



Take a skills-based approach



Provide dedicated mentorship

