THE LINUX FOUNDATION
SPRING MEMBER MEETING

Looking Forward to 2021 and Beyond

Jim Zemlin / The Linux Foundation

THE LINUX FOUNDATION

2020 proved that we need to work together in tough times.

After a VERY challenging 2020, Linux Foundation is off to its best start ever

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- We exceeded 2M trainings and exams delivered in January
- We are adding new members at our fastest rate ever: more than one a day
- We are adding 2-3 new projects a week: 34 launched or will launch in 1Q21
- We Announced A Racial Justice Initiative
- Launched a new Security Initiative for the Linux Kernel
- Announced a New Self Sovereign Identity Effort
- Started a new 5G R&D Effort and a new 5G Packet Core Effort (Magma)
- Launched a Mobile Native Foundation to make it easier to build large scale mobile apps
- We created publications on Supply Chain Security and more
- AND… Today we are announcing several other new initiatives

In 2021 we are privileged home to some of the most important technology projects on earth (and mars)

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From Open Source Repo to International Standards:

We have a range of collaboration tools for collective innovation

Capabilities Required to Engage:
Legal coordination and structures
Industry vertical experience
Technical sector experience
Successful track record

Capabilities Required to Scale:
Self-service options
Umbrella and flexible structures
Membership model & network effects
Systems and process focus
Rigorous IP mgmt and security focus

SPDX accepted as international standard for how open source metadata is shared

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As a critical part of the global tech supply chain, creating a reliable, secure, and sustainable technology effort requires many moving parts

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11.7M
Lines of Code Added Weekly

9.4M
Lines of Code Removed Weekly

208,660
Contributing Developers

12,435
Contributing Companies

16,618
Repositories

9.1M
Commits

960,610
Pull Requests

1.3M
Builds Monitored

859,150
Logged Issues

5.2B
Container Downloads

1.6M
Group Chat Messages

3.6M
Group Email Messages

4,532
Scanned Repositories

282,342
Open Vulnerabilities

62,379
Recommended Fixes

36,163
Vulnerabilities Fixed

28,496
CLA Contributors

26,998
Community Meetings

We created LFx to help our communities innovate and scale

LFX | Insights

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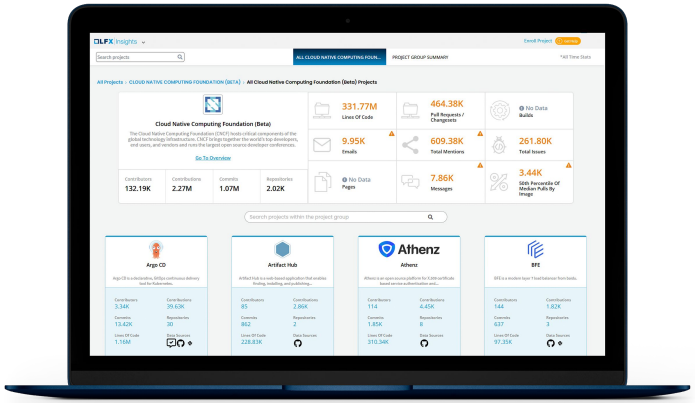

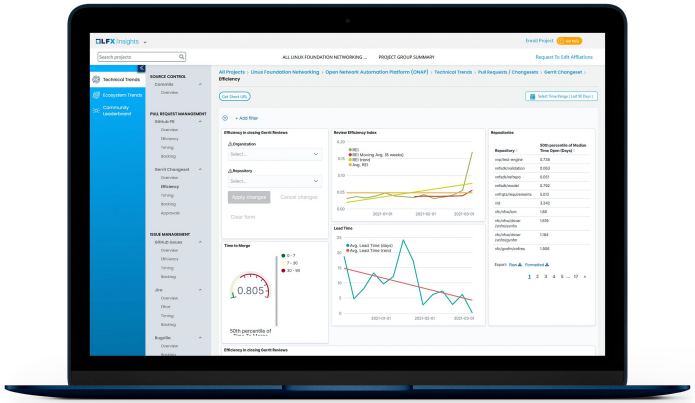

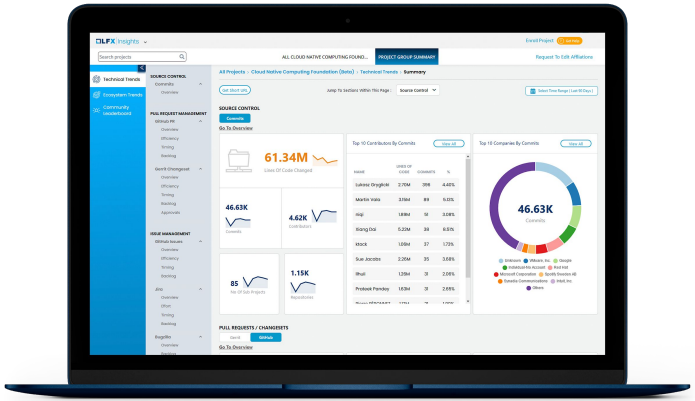

LFX | Security

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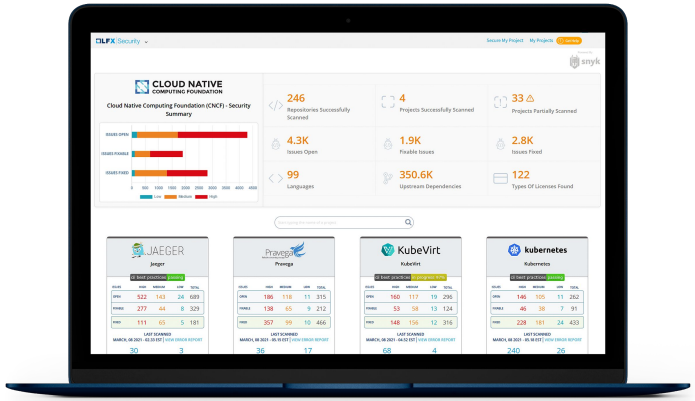

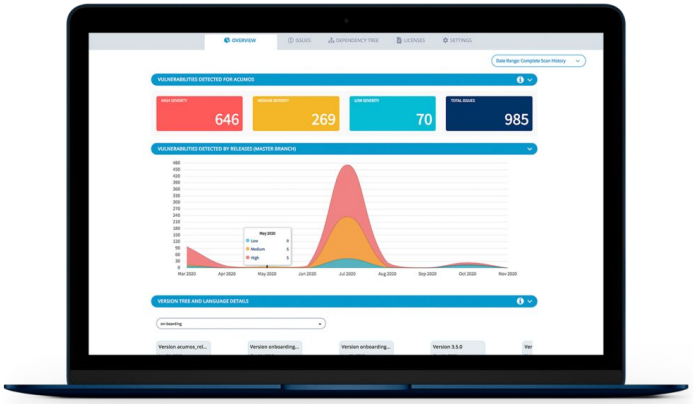

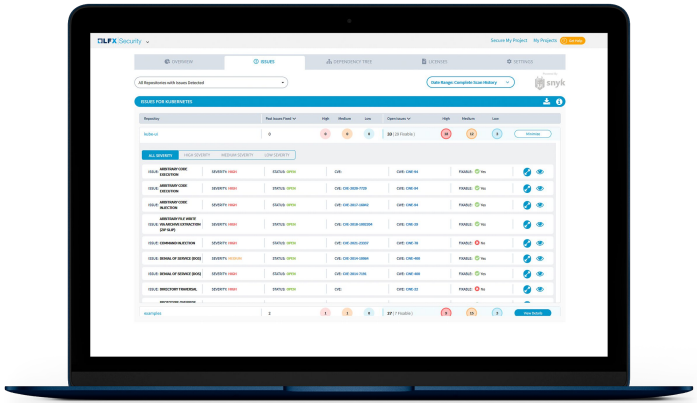

LFX | Individual Dashboard

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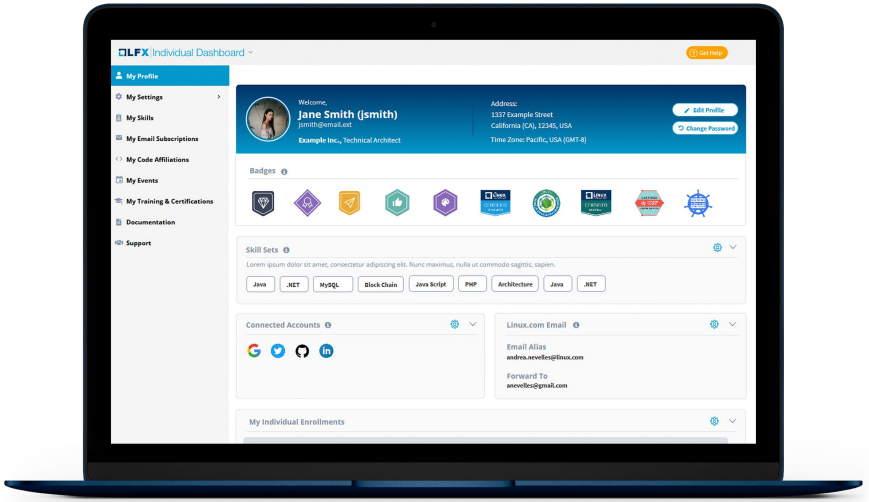

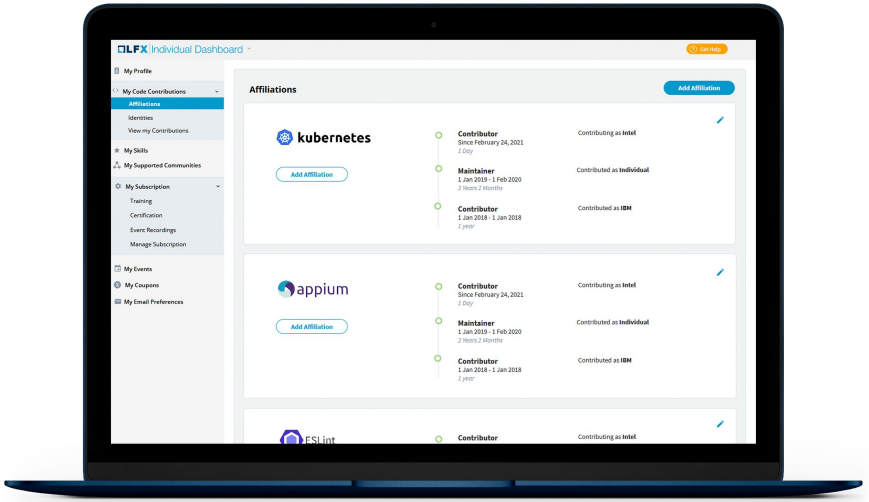

LFX | Mentorship

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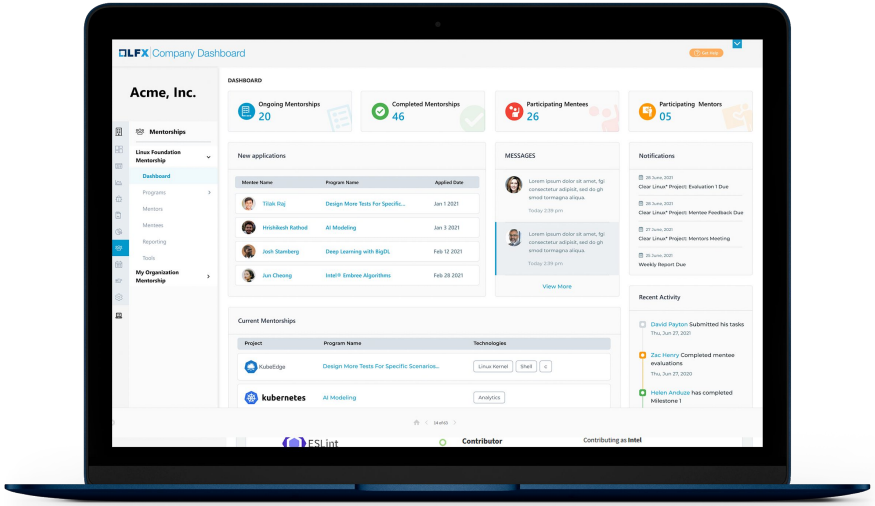

LFX | Crowdfunding

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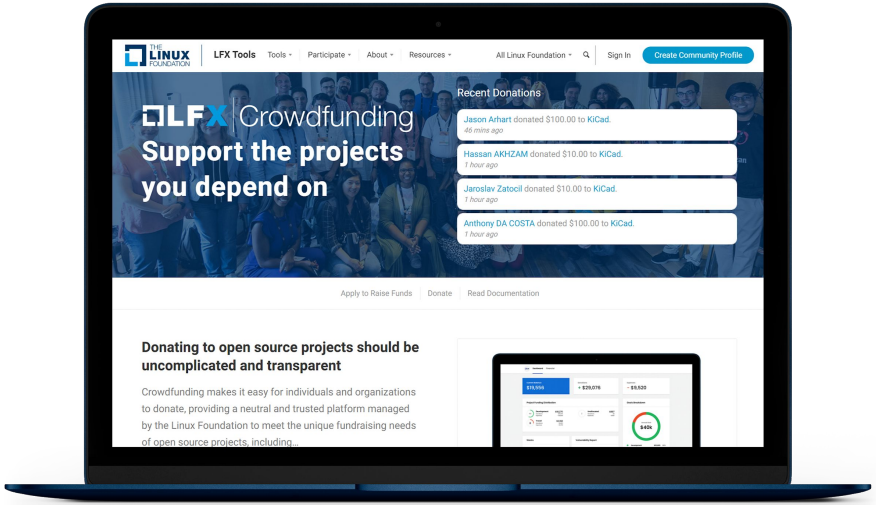

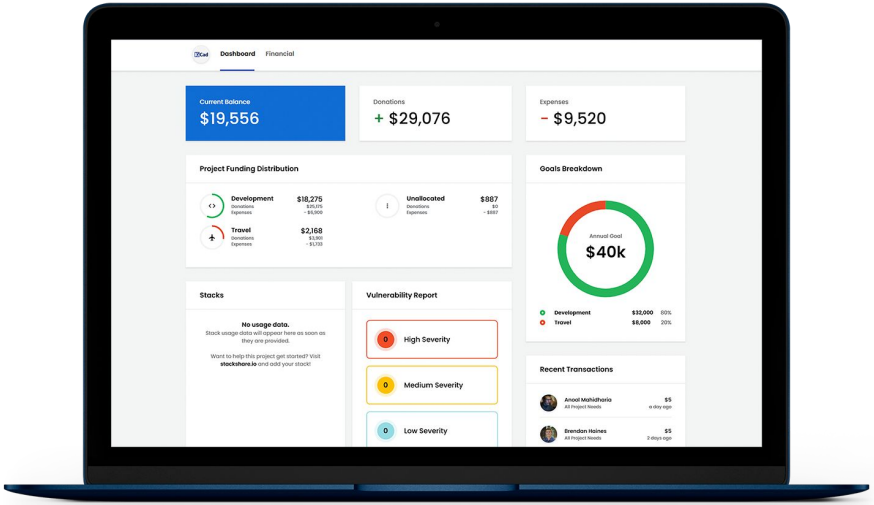

LFX Community Events

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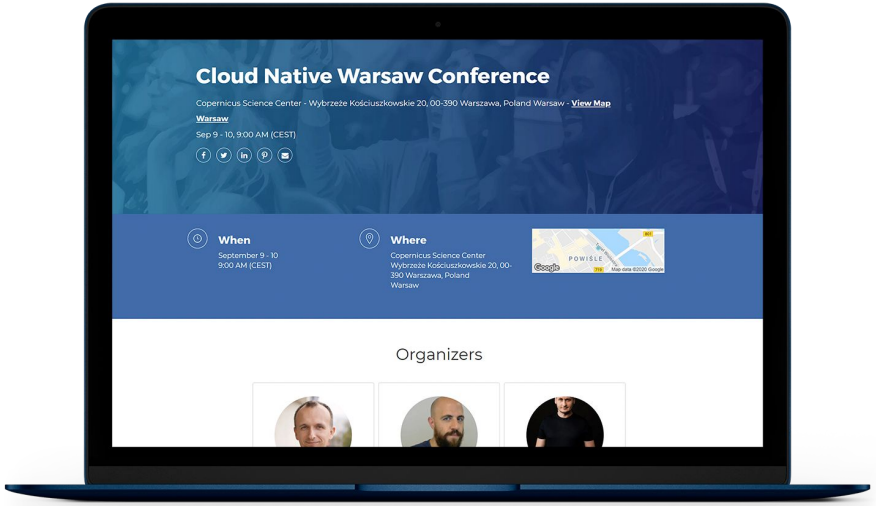

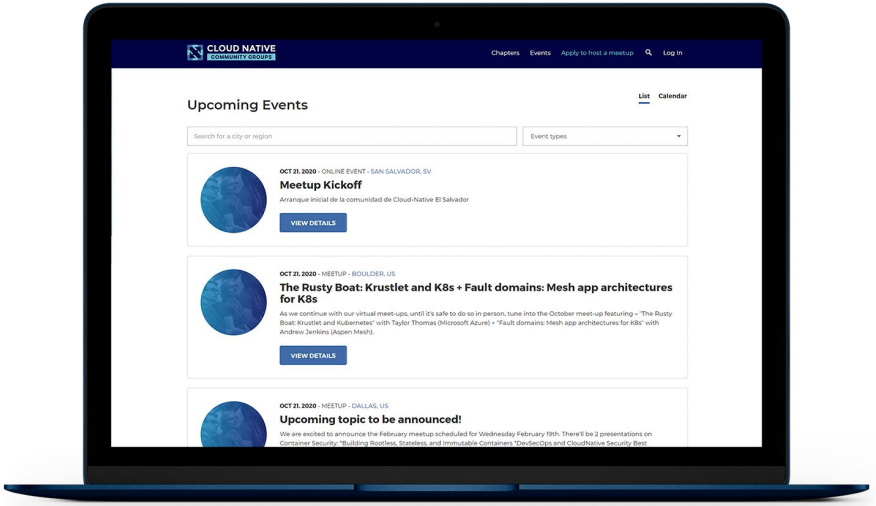

LFX Training Portal

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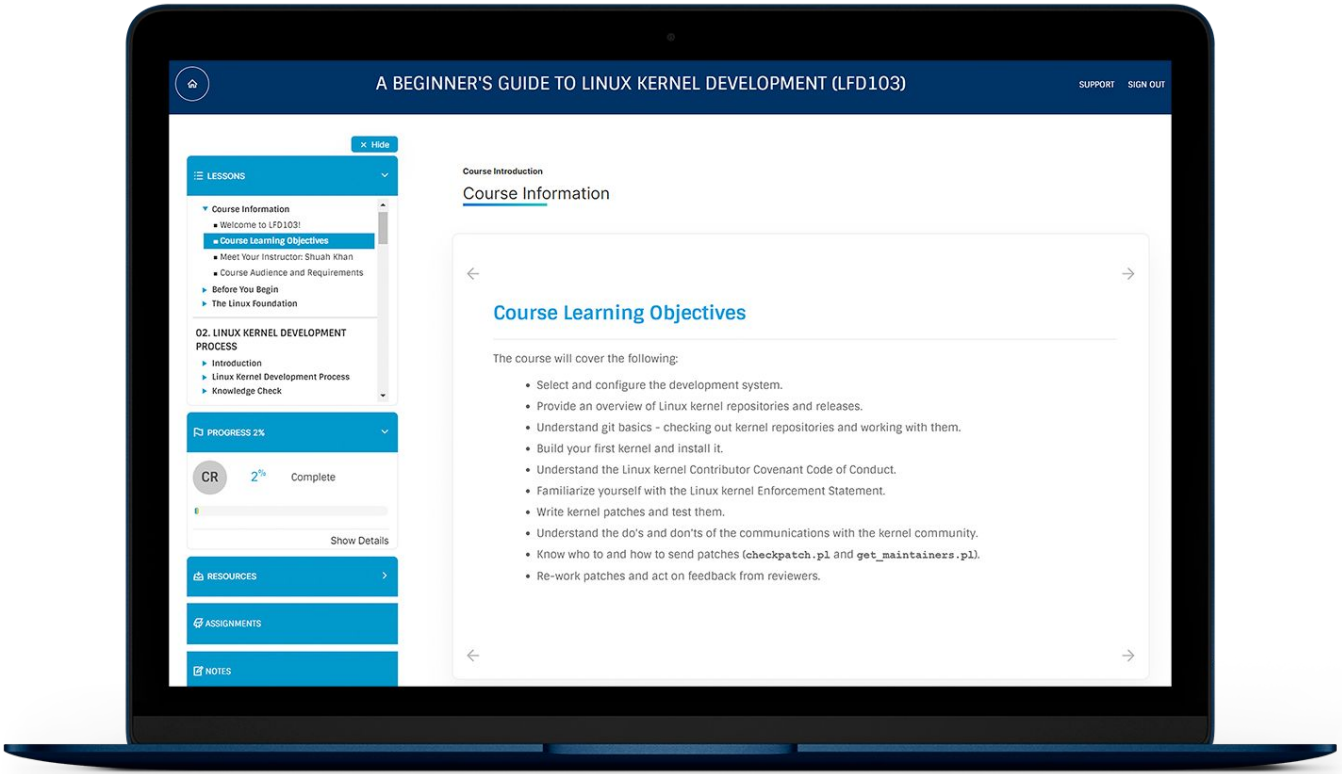

LFX | Project Control Center

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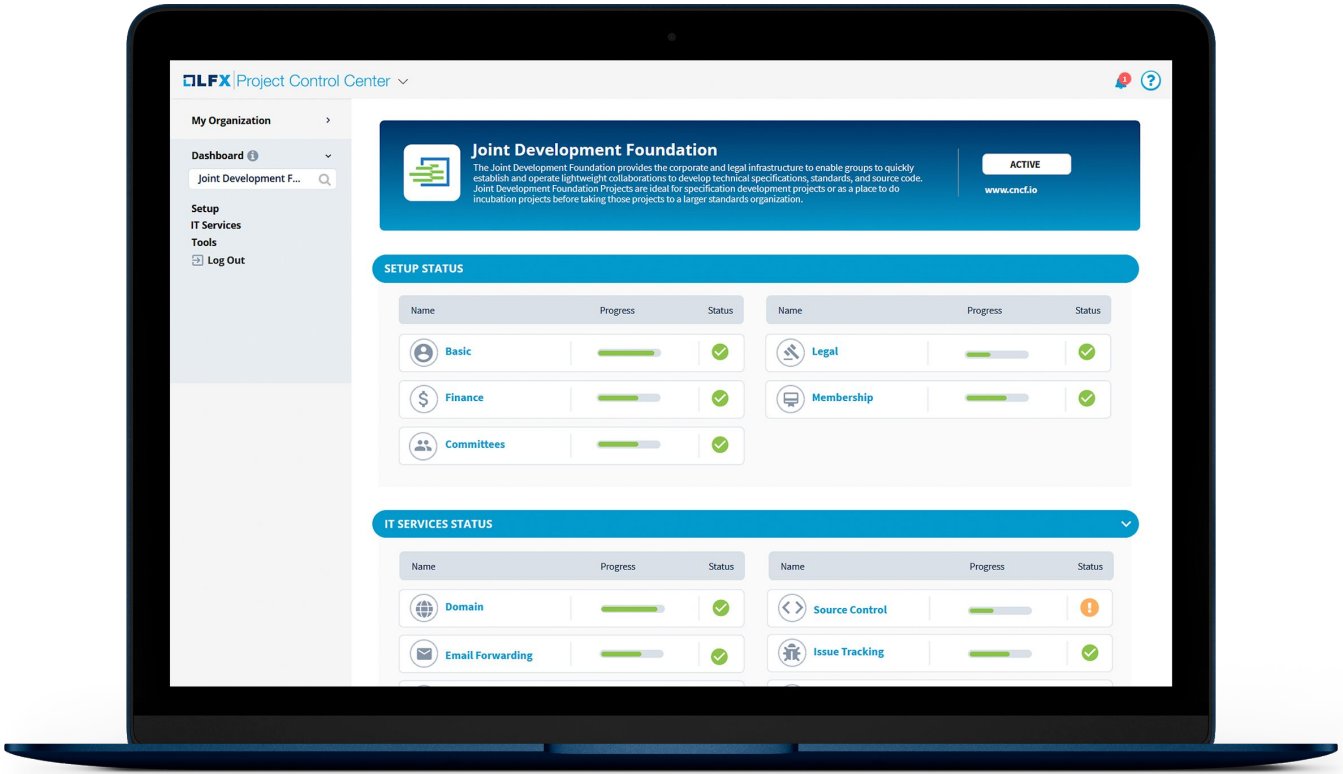

LFX Landscape

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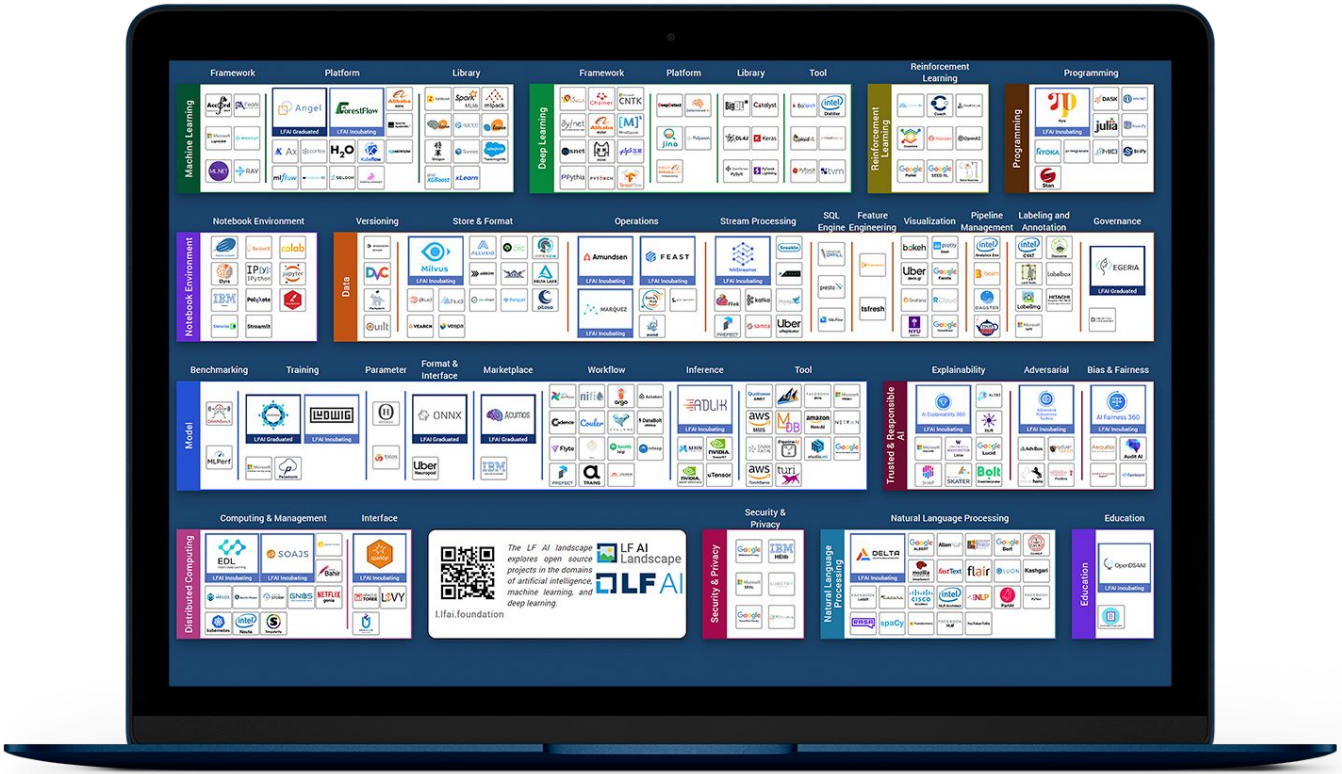

LFX | Organization Dashboard

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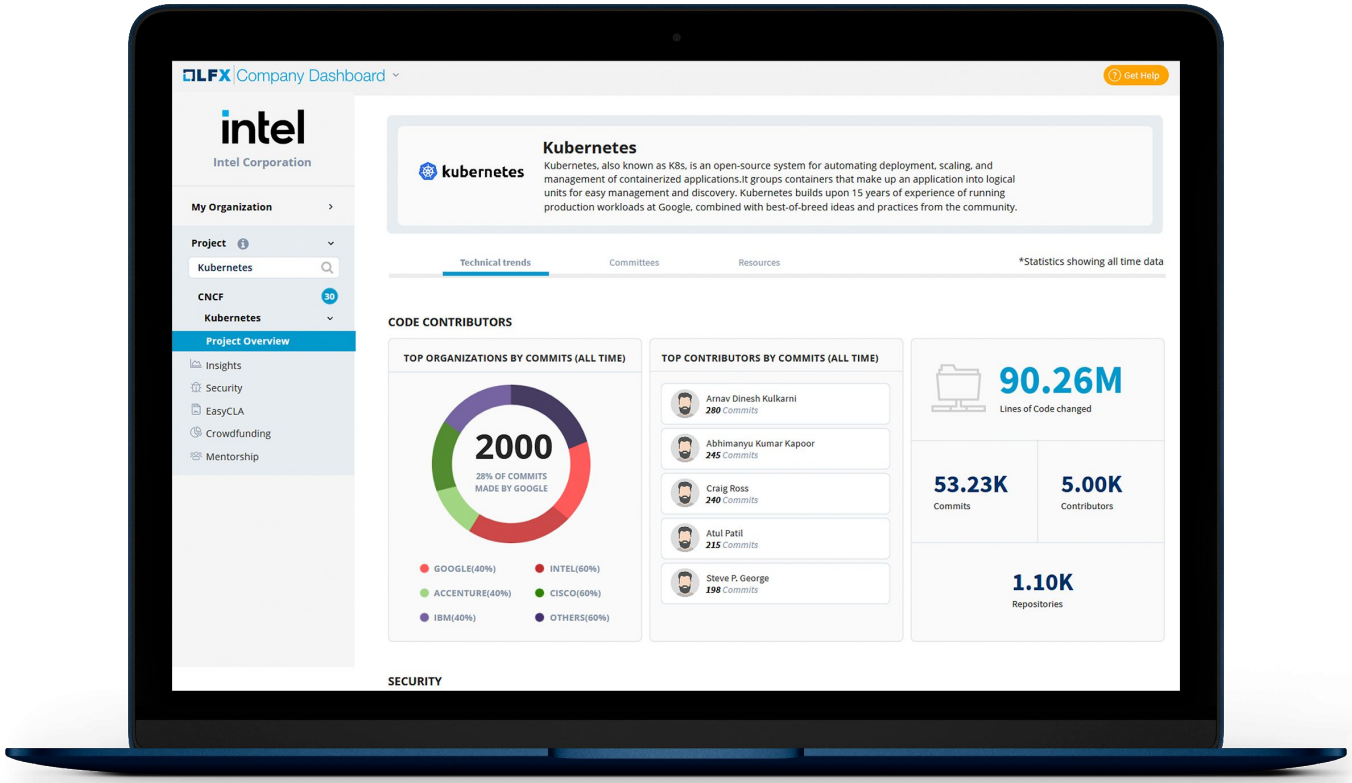

Open source challenges in 2021

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1. **Security**
2. **Diversity**
3. **Getting Together in Person Again**

Open source challenges in 2021

THE LINUX FOUNDATION

1. **Security**
2. Diversity
3. Getting Together in Person Again

Open Source Security Foundation (OpenSSF) since October

- As of Feb: 36 member organizations, 263 individual participants
- Lots of accomplishments since 2020-08-03 launch, e.g.:
  - Free edX courses on how to develop secure software - 2,254 registrants as of Feb 2021
  - CII Best Practices badge - >3600 participating projects, >500 passing badges
  - OSSF Scorecard - simple automated evaluation of OSS project
  - Developed PoC security metric dashboard for OSS projects (building on badge & scorecard)
  - Begun development of curated, community-driven collection of security reviews of OSS
  - “CVE benchmark” - dataset of vulnerabilities & fixes, to better benchmark security tools
- See OpenSSF website <https://openssf.org>, esp. “Town Halls” on 2020-11-09 & 2021-02-22

Announcing new OpenSSF members

New members dedicated to helping advance open source security education and best practices.

Report on the 2020 FOSS Contributor Survey

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- "Report on the 2020 FOSS Contributor Survey"
  - Collaboration between LF & Laboratory for Innovation Science at Harvard (LISH)
  - Incorporated into OpenSSF working group on securing critical projects
  - Focused on security & sustainability
  - Analyzed survey responses from 1,196 participants (not everyone completed every question)
- Top three motivations for contributors are non-monetary
  - Top motivations: adding needed feature/fix, enjoying learning, and creative/enjoyable work
  - Majority (74.87%) already employed full-time, ~half (51.65%) paid to develop OSS
- OSS security should receive more effort, burden should be beyond contributors
  - Providing bug/security fixes, audits, simplifying adding security tools to CI pipelines, memory safety...
- Enhance trend of corporate support for employees' contribution to FOSS
  - It's improved over 10 years, but 17.5% reported unclear policies, 5.6% unaware of policies

See: https://www.linuxfoundation.org/en/resources/publications/2020-foss-contributor-survey/

Open source challenges in 2021

THE LINUX FOUNDATION

1

Security

2

Diversity

3

Getting Together in Person Again

Programs to support diversity in our communities

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- Inclusive Naming Initiative
- Software Developer Diversity and Inclusion (SDDI) project
- Expanded Formal Mentorship Program
- LiFT Scholarship program
- Live Online Mentorship Program
- Diversity Scholarships & Travel Funding for Events
- Inclusive Speaker Orientation Course (created with National Center for Women in IT)
- Partnership with Blacks in Technology
- Ally Workshops
- Call for Code Racial Justice Initiative
- And more….

Inclusive Naming Initiative

Helping projects and companies make consistent, responsible choices to remove harmful language.

Priyanka Sharma
General Manager, Cloud Native Computing Foundation

Creating events that are welcoming to all

- No all-male panels, all-male speaker line-ups or all-male keynote line-ups
- Request speakers to take our Inclusive Speaker Orientation, created in collaboration with the National Center for Women & Information Technology
- Onsite Nursing Rooms
- Free, onsite Child Care
- Onsite prayer rooms, quiet rooms and ‘zen zones’
- Attendee Communication Preference Stickers & Pronoun Stickers
- Non-Binary Restrooms
- Gender Neutral Event Shirt Sizing
- Accessibility– captioning on video recordings, wheelchair accessible venues, food allergy management, information on event websites on wheelchair and medical equipment rental
- Non-Alcoholic Beverages available at all social events
- Diversity & Inclusion Handouts with an overview of our onsite offerings and a reminder on our Code of Conduct
- Event Code of Conduct Signage prominently displayed onsite
- Special Events to Promote Diversity + Inclusion (such as the Better Together Diversity Social, Women in Open Source lunch, Speed Mentoring Programs and Kids Coding Workshops

Open source challenges in 2021

THE LINUX FOUNDATION

1

Security

2

Diversity

3

Getting Together in Person Again

Virtual Event Fatigue

Removing your cat filter

1. While in a Zoom meeting with your video on, click the **Up Arrow** next to the **Stop Video** icon.

2. Select a different camera setting, or try selecting each camera listed until you return to normal. For example, for macOS users, click **FaceTime HD Camera (Built-in)**.
   The cat filter will now be removed and you can go back to your purr-fessional meeting.

Read other great tips on how to use cool Zoom video features.

Call for Code for Racial Justice

- Police & Judicial Reform and Accountability
  - Incident Accuracy Reporting System (IARS)
  - Fair Change
  - Open Sentencing
- Policy & Legislation Reform
  - Truth Loop
  - Five Fifths Voter
  - Legit-Info
- Diverse Representation
  - TakeTwo

Special Guest:
Jo Ann Hill
Open Sentencing Project & IBM

Mobile Native Foundation

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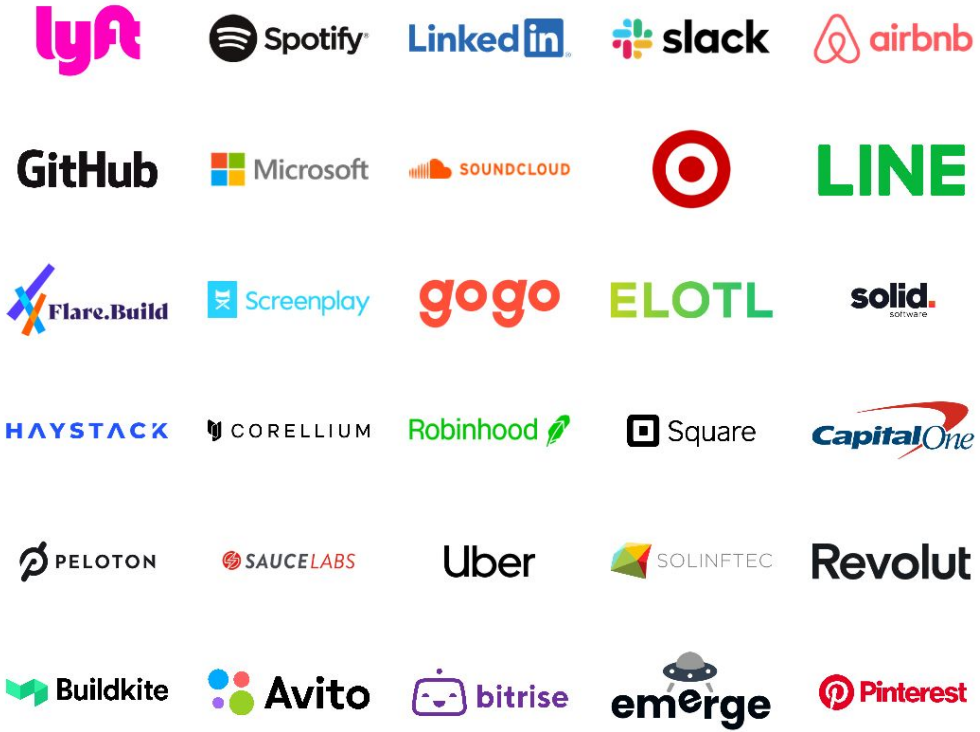
Bringing developers together to improve processes and technologies that support large-scale Android and iOS applications.

Special Guest:

Keith Smiley
Lyft



Servo Project

- Modern and open web engine for building applications and immersive experiences using web technologies.
- Started by Mozilla in 2012 and brought to the Linux Foundation in November 2020 to expand the contributor community

Special Guest:
Alan Jeffrey
Servo Project technical chair

OpenChain ISO 5230 Update

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Special Guest:

Shane Coughlan

General Manager

OpenChain Project

Sigstore Announcement

Linux Foundation Announces Free sigstore Signing Service to Confirm Origin and Authenticity of Software

sigstore improves the security of the software supply chain by enabling the easy adoption of cryptographic software signing backed by transparency log technologies.

Special Guest:

Luke Hinds
Red Hat

Founding Members

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