## Welcome to the 2024 Open Source Developer survey!

**GOALS:**
This study assesses what resources software developers use to improve their technical skills, advance their careers, and stay up to date. This survey should take you about 5 minutes.

**VISIBILITY:**
We will summarize the survey data and findings in a report to be published on the Linux Foundation website. The dataset for this survey will be posted and made publicly available in the Linux Foundation's section of Data.World.

**BONUS:**
As a thank you for qualifying and completing this survey, a code will be displayed on the confirmation page. It can be used for a 30% discount on any Linux Foundation e-learning training course or certification exam if you register for a course by August 31, 2024. You can find the complete catalog of training and certifications at https://training.linuxfoundation.org/full-catalog/. The promotional price is limited to individual purchases only. The offer is not valid with any other discount combinations. Offer does not include THRIVE-ONE subscriptions or any FinOps courses and certifications.

**ADDED BONUS:**
If you qualify for and complete this survey, Linux Foundation Research will also make a donation to the Linux Foundation's Travel Fund. The Linux Foundation's Travel Fund enables open source developers and community members to attend events that they would otherwise be unable to due to a lack of funding. Your participation in this survey will help others in our community!

**PRIVACY:**
No personal identifying information will be linked to the responses. Data collection in this survey is subject to the Linux Foundation's Privacy Policy, available at https://linuxfoundation.org/privacy.

**QUESTIONS:**
If you have questions about this survey, please email research@linuxfoundation.org

## 2024 Open Source Developer Survey

### Introductory questions

* 1. **How are you involved with software development?** (select one)

◯ I am not involved with software development

◯ I develop software

◯ I manage a software development team

◯ None of the above

◯ Don't know or not sure

* 2. **What is your current employment status?** (select one)

○ Employed, full time

○ Employed, part time

○ Self-employed, full time, or part time

○ Student, full time, or part time

○ Unemployed and looking for my first IT role

○ Unemployed, looking for work, but previously employed in IT

○ Unemployed and not currently looking for work in IT

○ Retired

○ Don't know or not sure

## 2024 Open Source Developer Survey

### Please tell us about yourself

* 3. **In what country or region are you based?** (select one)

○ United States or Canada

○ Mexico, Central America, the Caribbean, and South America

○ Europe

○ Asia Pacific (except China, India, Japan)

○ China

○ India

○ Japan

○ Middle East or Africa

○ Other country / region (please specify)

[_____]

* 4. **Please estimate how many total employees are in the organization you work for.** (select one)

○ 1 to 49

○ 50 to 499

○ 500 to 4,999

○ 5,000 to 9,999

○ 10,000 to 19,999

○ 20,000 or more

○ Don't know or not sure

* 5. **Which of the following job families best describes your IT professional role?**
(select one)

○ C-level executive (CEO, CIO, CISO, CMO, COO, CPO)

○ IT management: VP, director, or manager

○ Web / Web UX / Front end / Back end / Full stack developer

○ Software / App developer (desktop / mobile / embedded)

○ Platform engineer / System engineer / SRE

○ Systems architect / Principal engineer

○ DevOps / DevSecOps engineer

○ Networking engineer

○ AI engineer / Data analyst / Data scientist

○ Database administrator / architect

○ IT project manager

○ Solution architect / Field engineer / Product implementation specialist

○ Cybersecurity analyst / specialist

○ IT auditor / Compliance and risk management

○ Security administrator / engineer

○ IT services management

○ Other (please specify)

|                                                                     |
|---------------------------------------------------------------------|

* 6. **How many years of professional experience do you have in software development?** (select one)

○ 0 to 2 years

○ 3 to 5 years

○ 6 to 10 years

○ 10 to 20 years

○ More than 20 years

○ Don't know or not sure

* 7. **How much do you engage in developing innovative products or employing state-of-the-art technologies in your projects?** (select one)

○ Not at all

○ Slightly

○ Moderately

○ Very much

○ To a great deal

○ Don't know or not sure

* 8. **Which option best describes your relationship with open source software?** (select one)

- ○ I am not involved with the use or development of open source software
- ○ I use open source software but do not actively contribute to its development
- ○ Non-development contributor involved in non-coding tasks (documentation, community engagement, etc.)
- ○ Occasional contributor
- ○ Core contributor
- ○ Committer
- ○ Maintainer (key decision maker / project leader)
- ○ Other (please specify)

[                                                    ]

## 2024 Open Source Developer Survey

Tell us about your involvement with open source software

* 9. **How many hours do you contribute to open source projects per week on average?** (select one)

- ○ I do not contribute to open source projects
- ○ Less than 1 hour
- ○ 1 to 10 hours
- ○ 10 to 30 hours
- ○ More than 30 hours
- ○ Don't know or not sure

* 10. **How much do you agree or disagree with the following statements regarding open source software?** (one response per row)

| | Strongly disagree | Somewhat disagree | Neutral | Somewhat agree | Strongly agree | Don't know or not sure |
|---|---|---|---|---|---|---|
| Our organization contributes significantly to the development of open source software | ○ | ○ | ○ | ○ | ○ | ○ |
| After weighing our organization's contributions to and use of open source software, the overall benefits outweigh the costs | ○ | ○ | ○ | ○ | ○ | ○ |
| Open source software enables our organization to innovate faster | ○ | ○ | ○ | ○ | ○ | ○ |
| Open source software development leads to code that has better quality and security | ○ | ○ | ○ | ○ | ○ | ○ |
| The community-driven approach to open source software leads to the faster resolution of vulnerabilities | ○ | ○ | ○ | ○ | ○ | ○ |
| Open source software has sustainability problems | ○ | ○ | ○ | ○ | ○ | ○ |
| The security of open source software can vary widely | ○ | ○ | ○ | ○ | ○ | ○ |
| Open source sustainability problems could be solved if organizations did a better job of "giving back" | ○ | ○ | ○ | ○ | ○ | ○ |

2024 Open Source Developer Survey

How do you advance in your career?

* 11. **How important are the following strategies to advancing in your career?** (select one response per row)

| | Not important at all | Somewhat important | Important | Very important | Extremely important | Don't know or not sure |
|---|---|---|---|---|---|---|
| Demonstrating excellence in my current role | ○ | ○ | ○ | ○ | ○ | ○ |
| Improving my existing skills | ○ | ○ | ○ | ○ | ○ | ○ |
| Learning new skills | ○ | ○ | ○ | ○ | ○ | ○ |
| Staying up to date with the fast-paced changes occurring in technology | ○ | ○ | ○ | ○ | ○ | ○ |
| Understanding how technology will impact the industry that I'm employed in | ○ | ○ | ○ | ○ | ○ | ○ |
| Changing roles or employers | ○ | ○ | ○ | ○ | ○ | ○ |
| Connecting to other professionals | ○ | ○ | ○ | ○ | ○ | ○ |

* 12. **How important are the following resources or activities to your current IT role and career?** (select one response per row)

| | Not important at all | Somewhat important | Important | Very important | Extremely important | Don't know or not sure |
|---|---|---|---|---|---|---|
| Sample code | ○ | ○ | ○ | ○ | ○ | ○ |
| Documentation | ○ | ○ | ○ | ○ | ○ | ○ |
| Training courses | ○ | ○ | ○ | ○ | ○ | ○ |
| Certifications | ○ | ○ | ○ | ○ | ○ | ○ |
| Tutorials | ○ | ○ | ○ | ○ | ○ | ○ |
| Interactive learning environments (e.g., code labs) | ○ | ○ | ○ | ○ | ○ | ○ |
| Public forums | ○ | ○ | ○ | ○ | ○ | ○ |
| Hackathons | ○ | ○ | ○ | ○ | ○ | ○ |
| Meetups, special interest groups (SIGs), etc. | ○ | ○ | ○ | ○ | ○ | ○ |
| Vendor or industry trade shows | ○ | ○ | ○ | ○ | ○ | ○ |
| Open source events (conferences, summits, etc.) | ○ | ○ | ○ | ○ | ○ | ○ |
| Research (white papers, survey data, webinars, blogs, social media) | ○ | ○ | ○ | ○ | ○ | ○ |
| Generative AI (e.g., ChatGPT) | ○ | ○ | ○ | ○ | ○ | ○ |
| Being mentored | ○ | ○ | ○ | ○ | ○ | ○ |

2024 Open Source Developer Survey

Tell us more about your experience with professional events

* 13. **Please rank order the resources or activities that you found very or extremely important in the previous question.** (use the arrows to move responses so that the first (top) response is the most important)

≡ [  ]   Sample code

≡ [  ]   Documentation

≡ [  ]   Training courses

≡ [  ]   Certifications

≡ [  ]   Tutorials

≡ [  ]   Interactive learning environments (e.g., code labs)

≡ [  ]   Public forums

≡ [  ]   Hackathons

≡ [  ]   Meetups, special interest groups (SIGs), etc.

≡ [  ]   Vendor or industry trade shows

≡ [  ]   Open source events (conferences, summits, etc.)

≡ [  ]   Research (white papers, survey data, webinars, blogs, social media)

≡ [  ]   Generative AI (e.g., ChatGPT)

≡ [  ]   Being mentored

* 14. **How important are the following types of events to you?** (select one response per row)

| | Not important at all | Somewhat important | Important | Very important | Extremely important | Not applicable or not sure |
|---|---|---|---|---|---|---|
| **Vendor-focused** events (e.g., Google I/O, Microsoft Build, GitHub Universe, Oracle World, AWS RE:invent, SalesForce Dreamforce, SAP Sapphire) | ○ | ○ | ○ | ○ | ○ | ○ |
| **Industry-focused** events (e.g., QCon, CES, RSA, Intel Innovation) | ○ | ○ | ○ | ○ | ○ | ○ |
| **Open source-focused** events (e.g., Linux Foundation's Open Source Summit, KubeCon, FOSDEM) | ○ | ○ | ○ | ○ | ○ | ○ |

\* 15. **How many of these types of events did you attend in 2023?** (select one response per row)

| | 0 | 1 | 2 to 4 | 5 or more | Don't know or not sure |
|---|---|---|---|---|---|
| **Vendor-focused** events (e.g., Google I/O, Microsoft Build, GitHub Universe, Oracle World, AWS RE:invent, SalesForce Dreamforce, Sapphire) | ○ | ○ | ○ | ○ | ○ |
| **Industry-focused** events (e.g., QCon, CES, RSA, Intel Innovation) | ○ | ○ | ○ | ○ | ○ |
| **Open source-focused** events (e.g., Linux Foundation's Open Source Summit, KubeCon, FOSDEM) | ○ | ○ | ○ | ○ | ○ |

\* 16. **How has the importance of these types of events changed for you over the past 3 years?** (select one response per row)

| | Decreased significantly | Decreased somewhat | Stayed the same | Increased somewhat | Increased significantly | Don't know or not sure |
|---|---|---|---|---|---|---|
| **Vendor-focused** events (e.g., Google I/O, Microsoft Build, GitHub Universe, Oracle World, AWS RE:invent, SalesForce Dreamforce, Sapphire) | ○ | ○ | ○ | ○ | ○ | ○ |
| **Industry-focused** events (e.g., QCon, CES, RSA, Intel Innovation) | ○ | ○ | ○ | ○ | ○ | ○ |
| **Open source-focused** events (e.g., Linux Foundation's Open Source Summit, KubeCon, FOSDEM) | ○ | ○ | ○ | ○ | ○ | ○ |

2024 Open Source Developer Survey

Tell us more about professional events

\* 17. **Thinking about the type of professional event that you attended the most, how**

**much value have you obtained from attending these events over the last three years?**
(select one response per row)

| | No value | Slight value | Moderate value | High value | Extremely high value | Don't know or not sure |
|---|---|---|---|---|---|---|
| Keeping up with the latest developments in the open source ecosystem (distinct from the broader tech industry) | ○ | ○ | ○ | ○ | ○ | ○ |
| Networking opportunities | ○ | ○ | ○ | ○ | ○ | ○ |
| Discovering new open source projects that may benefit my organization | ○ | ○ | ○ | ○ | ○ | ○ |
| Finding solutions to technical challenges faced by my organization's open source projects | ○ | ○ | ○ | ○ | ○ | ○ |
| Building and maintaining collaborative relationships with other contributors from my projects | ○ | ○ | ○ | ○ | ○ | ○ |
| "Hallway" tracks (ad hoc hallway discussions) | ○ | ○ | ○ | ○ | ○ | ○ |
| Increasing visibility and reputation of myself and my organization | ○ | ○ | ○ | ○ | ○ | ○ |
| Finding new jobs and career opportunities | ○ | ○ | ○ | ○ | ○ | ○ |
| Selling products and services | ○ | ○ | ○ | ○ | ○ | ○ |
| Shaping the future of open source projects | ○ | ○ | ○ | ○ | ○ | ○ |
| Helping in my job's day-to-day activities | ○ | ○ | ○ | ○ | ○ | ○ |
| Receiving feedback on products and ideas | ○ | ○ | ○ | ○ | ○ | ○ |
| Advancing in my career | ○ | ○ | ○ | ○ | ○ | ○ |
| Finding sponsors for projects | ○ | ○ | ○ | ○ | ○ | ○ |
| Finding inspiration and motivation | ○ | ○ | ○ | ○ | ○ | ○ |

| | | | | | | |
|---|---|---|---|---|---|---|
| Having fun | ○ | ○ | ○ | ○ | ○ | ○ |
| Learning new skills and best practices | ○ | ○ | ○ | ○ | ○ | ○ |

Other (please specify)

[                                        ]

18. **Do you have an interesting story to tell about professional events? Let us know how these events changed your professional life.** (this question is optional)

[                                        ]

* 19. **Which open source events have you attended?** (select all that apply)

☐ All Things Open

☐ ApacheCon / Community Over Code

☐ DebConf

☐ Devoxx

☐ DrupalCon

☐ EclipseCon

☐ FOSDEM

☐ FOSSAsia

☐ GNOME Asia Summit

☐ GUADEC

☐ KubeCon / CloudNativeCon

☐ Kubernetes Contributor Days

☐ Open Source in Finance Forum (OSFF)

☐ Open Source Summit

☐ PyCon

☐ Regional open source event (e.g., SeaGL, Ohio LinuxFest, or Texas LinuxFest)

☐ SCaLE (Southern California Linux Expo)

☐ State of Open Con

☐ Other (please specify)

[                                        ]

☐ I have not attended open source events

\* 20. **What has prevented you from attending <u>vendor-focused</u> events?** (select all that apply)

- [ ] Lack of relevance to my job and career goals
- [ ] Cost of attendance
- [ ] Quality and value of the events
- [ ] Lack of time
- [ ] Lack of awareness or information about these events
- [ ] Events are too far away or not offered in my region
- [ ] I do not feel welcome or included in the open source events
- [ ] Difficulty obtaining permission or support from my employer
- [ ] Travel restrictions
- [ ] Other (please specify)

[                                        ]

\* 21. **What has prevented you from attending <u>industry-focused</u> events?** (select all that apply)

- [ ] Lack of relevance to my job and career goals
- [ ] Cost of attendance
- [ ] Quality and value of the events
- [ ] Lack of time
- [ ] Lack of awareness or information about these events
- [ ] Events are too far away or not offered in my region
- [ ] I do not feel welcome or included in the open source events
- [ ] Difficulty obtaining permission or support from my employer
- [ ] Travel restrictions
- [ ] Other (please specify)

[                                        ]

* 22. **What has prevented you from attending <u>open source-focused</u> events?** (select all that apply)

- [ ] Lack of relevance to my job and career goals
- [ ] Cost of attendance
- [ ] Quality and value of the events
- [ ] Lack of time
- [ ] Lack of awareness or information about these events
- [ ] Events are too far away or not offered in my region
- [ ] I do not feel welcome or included in the open source events
- [ ] Difficulty obtaining permission or support from my employer
- [ ] Travel restrictions
- [ ] Other (please specify)

[_____]

* 23. **Which of the following Generative AI (GenAI) learning solutions would your organization be interested in using?** (select all that apply)

- [ ] Interactive learning platforms
- [ ] Personalized learning paths
- [ ] Delivery of up-to-date content
- [ ] Automation of routine learning tasks (grading, feedback to students, correcting tests, etc.)
- [ ] Access to global expertise and experience
- [ ] Simulation environments (experiment and learn without impact production systems)
- [ ] Continuous learning and adaptation capabilities
- [ ] We are not interested in using GenAI learning solutions
- [ ] Other (please specify)

[_____]

- [ ] Don't know or not sure

24. **Please share any specific feedback, suggestions, or thoughts about your professional event experiences.** (this question is optional)

[_____]

25. **Are you interested in joining the Linux Foundation Research panel?** Panel members will regularly be invited to complete Linux Foundation surveys. For each completed survey by a panel member, Linux Foundation Research will make a financial contribution to the Linux Foundation scholarship or travel fund. These funds help enable individuals to secure technical training and attend select Linux Foundation events who may not otherwise have the funds to do so. If you are interested in being a part of the Linux Foundation Research Panel, please enter your email address in the textbox below. For information on the Travel Fund, see https://events.linuxfoundation.org/about/travel-fund-request/, and for information on the scholarship fund, see https://www.linuxfoundation.org/about/lift-scholarships.

Please enter your email address if you'd like to join:

[_____]

## 2024 Open Source Developer Survey

### Thank you and reward

**Please make sure to press the "Done" button at the bottom of this page to complete the survey.**

Thank you for completing this survey. **DEV30 is a 30% discount** on any Linux Foundation e-learning training course or certification exam, as long as you register for a course by August 31, 2024. You can find the complete catalog of training and certifications at https://training.linuxfoundation.org/full-catalog/. Discount is not valid for any other combination of courses or certifications. Promotional price limited to individual purchases only. Offer not valid with any other discount combinations. Offer does not include THRIVE-ONE subscriptions or any FinOps courses and certifications.

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