

HOW TO START CONTRIBUTING TO OPENSEARCH

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INTRODUCTION TO YOUR TRULY

\$whoami

~~Senior s/w Engineer~~ **Learner**
Community evangelist (AWS
Community Builder)

Innovator : Hackathons


Public speaker

Athlete at heart :    

Off the grid? Catch me just soaking
up **nature** to recharge for the next big
idea.





- Introduction to yours truly 
- Introduction to OpenSearch
- Benefits to Contributors
- Areas for Contribution
- Instructions for Code Contribution
- Bonus Tips
- Resources
- Q&A



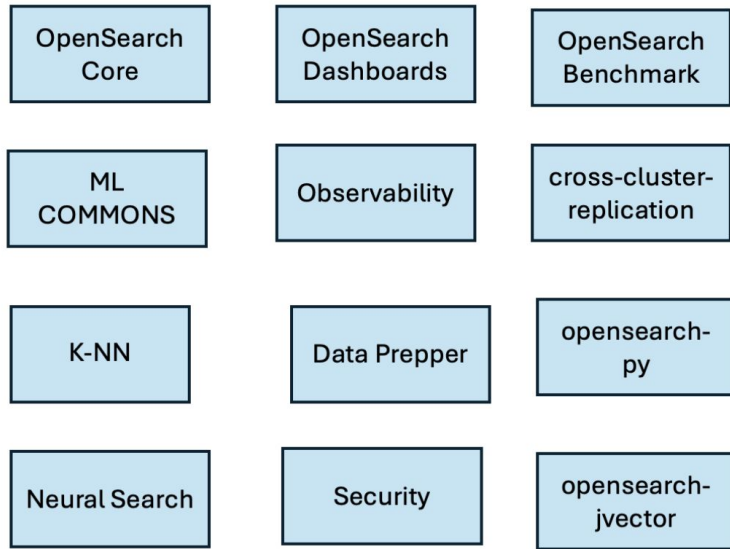
INTRODUCTION TO OPENSEARCH

- Open source distributed search and analytics engine
- Based on Apache Lucene
- Fork of Elasticsearch (7.10.2)
- Hosted by OpenSearch Software Foundation under the Linux Foundation



OPENSEARCH PROJECT OVERVIEW

- [133 repositories](#)
- Core: OpenSearch engine
- UI: OpenSearch Dashboards
- Plugins, docs, tooling
- Multiple programming languages
 - Java, Python, Kotlin, Typescript, JavaScript
- ALL of these areas could always use more contributors



BENEFITS TO CONTRIBUTORS

- Learn and grow your skills
- Work on technology you like
- Build your reputation
- Impact real-world projects



START CONTRIBUTING...

- Myth Busting – 'You need to be an expert'
- Reality: Many ways to contribute without deep technical skills
- Start small and grow
- Types of Contributions
 - Code (features, bug fixes)
 - Reporting bugs
 - Issue triaging
 - Participate in code reviews
 - Test new features and share your feedback
 - Blogs, vlogs



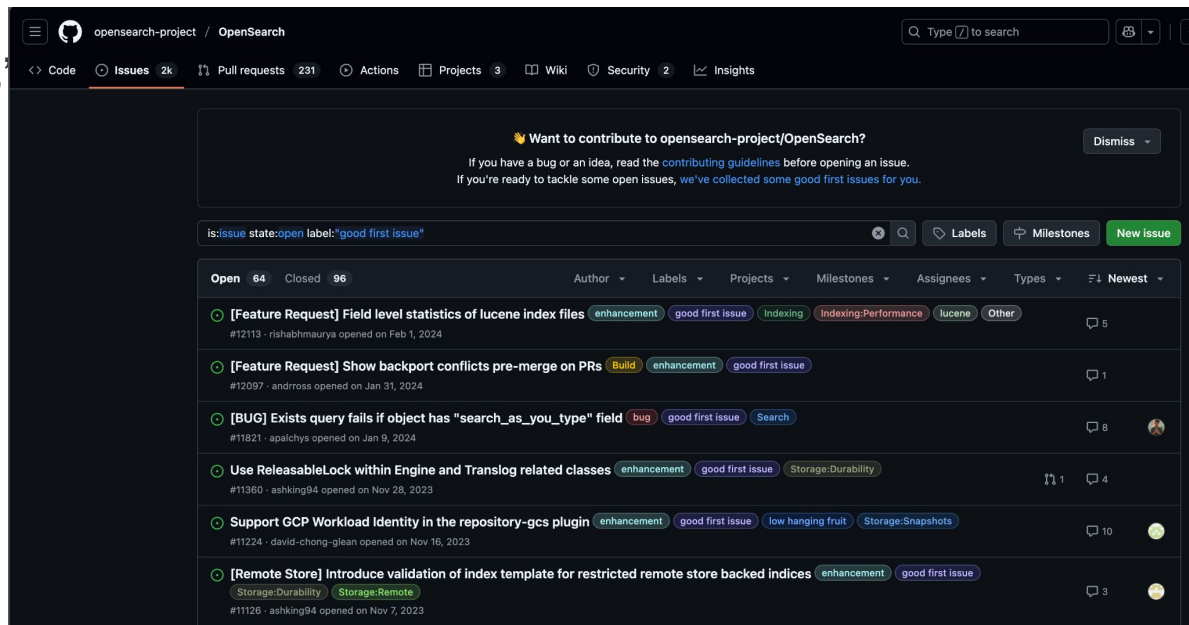
GETTING STARTED WITH GITHUB

- Read [ONBOARDING.md](#),
[CONTRIBUTING.md](#),
[CODE_OF_CONDUCT.md](#)
- Explore [DEVELOPER_GUIDE.md](#)
- Fork the [repo](#)
- Clone locally
- Build and Run tests
- Try making small changes



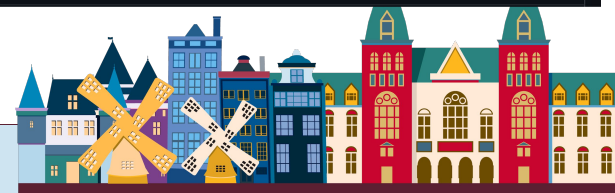
FIND 'GOOD FIRST ISSUES'

- [Filter](#) issues on Github
- Look for 'good first issues' tags
- [MAINTAINERS.md](#)



The screenshot shows the GitHub interface for the `opensearch-project/OpenSearch` repository. The 'Issues' tab is selected, and a search filter `is:issue state:open label:"good first issue"` is applied. A banner at the top encourages contributors to read the guidelines before opening an issue. Below the search bar, a list of issues is displayed, each with a 'good first issue' tag. The issues include:

- [Feature Request] Field level statistics of lucene index files** (enhancement, good first issue, indexing, indexing:performance, lucene, Other) - #12113 - rishabhmaurya opened on Feb 1, 2024
- [Feature Request] Show backport conflicts pre-merge on PRs** (build, enhancement, good first issue) - #12097 - andross opened on Jan 31, 2024
- [BUG] Exists query fails if object has "search_as_you_type" field** (bug, good first issue, search) - #11821 - apalchys opened on Jan 9, 2024
- Use ReleasableLock within Engine and Translog related classes** (enhancement, good first issue, storage:Durability) - #11360 - ashking94 opened on Nov 28, 2023
- Support GCP Workload Identity in the repository-gcs plugin** (enhancement, good first issue, low hanging fruit, storage:Snapshots) - #11224 - david-chong-glean opened on Nov 16, 2023
- [Remote Store] Introduce validation of index template for restricted remote store backed indices** (enhancement, good first issue, storage:Durability, storage:Remote) - #11126 - ashking94 opened on Nov 7, 2023





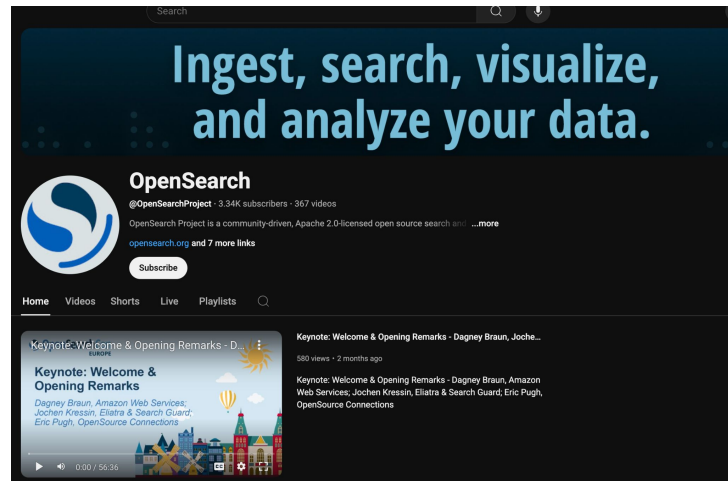
BONUS TIPS

- Start small
- Test bugs
 - Bugs from our own expertise area
 - NullPointerException,
 - IllegalArgumentException
 - Bugs with detailed explanation
- Be patient
- Ask for help



CONNECT WITH THE COMMUNITY

- [Forums](#), [Slack](#), [Triage meetings](#)
- [UserGroups and Events](#)
- [Maintainers](#)
-  [YouTube](#)
-  [LinkedIn](#)
- OpenSearchCon
- Ask questions, get guidance



Common Pitfalls to Avoid

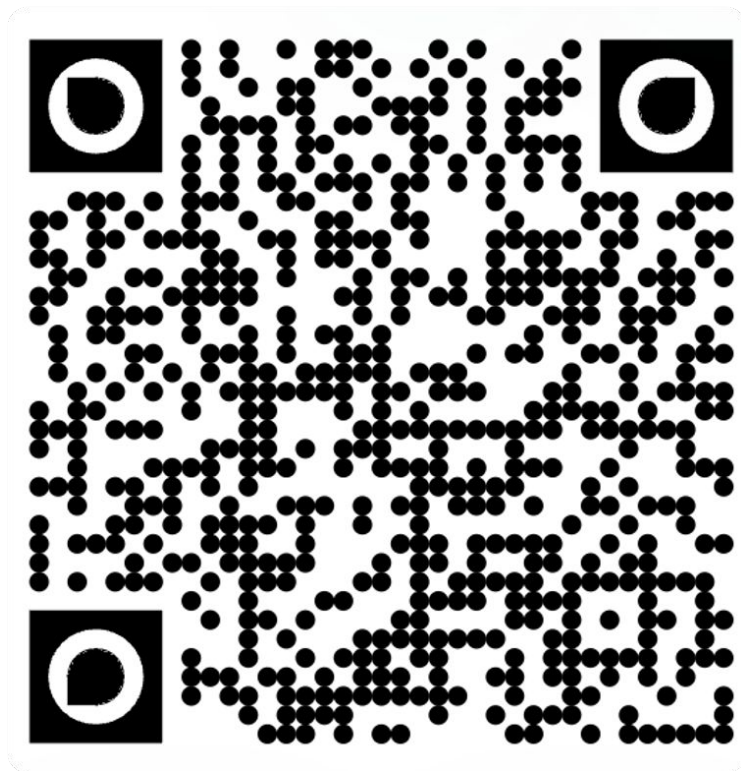
- Ignoring CONTRIBUTING.md, CODE_OF_CONDUCT.md
- Submitting large PRs
- Performance improvement PRs
- Not asking for help



Get Slides



Connect with me



My OS EU talk



Thank you for being an amazing audience



That's how I want the hall to look like !!!



Thank you



Until Next time ...





Q&A, Bring it on !!

