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— Powered by Querqy —




Dr. Johannes Peter

Psychology and Computer Science | Querqy Committer | Team Servant | Data & Cloud
Engineer | Product Manager (if there is no alternative)

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 **Daniel (dBlock) Doubrovkin** @dblockdotorg · Apr 15

From concurrent searching to JDK17, Andriy Redko (reta@) from @aiven_io has contributed tons to OpenSearch core over past few months. He is now a co-maintainer - first, but certainly not last, non-AMZN w/maintainer rights on this repo since April 13, 2022!

opensearch-project/OpenSearch

#2905 Adding @reta to OpenSearch maintainers.

6 comments 8 reviews 1 file +14 -14

 **dBlock** · April 14, 2022 · 2 commits

github.com


Adding @reta to OpenSearch maintainers. by dBlock · Pull Request #2...

Signed-off-by: dBlock dBlock@amazon.com Description Following the process in opensearch-project/github#59, I had nominated Andriy ...

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 **Nick Knize** @nknize

Words cannot express how grateful we @OpenSearchProj maintainers are for those that find time to contribute even when a war is going on in their home country. 🇺🇦 This is what #OpenSource is about. Thank you @Hronom!

#StandUpForUkraine 🙋
#WarInUkraine2022

 **Hronom** Overview
Hronom has 96 repositories available. Follow their code on GitHub.

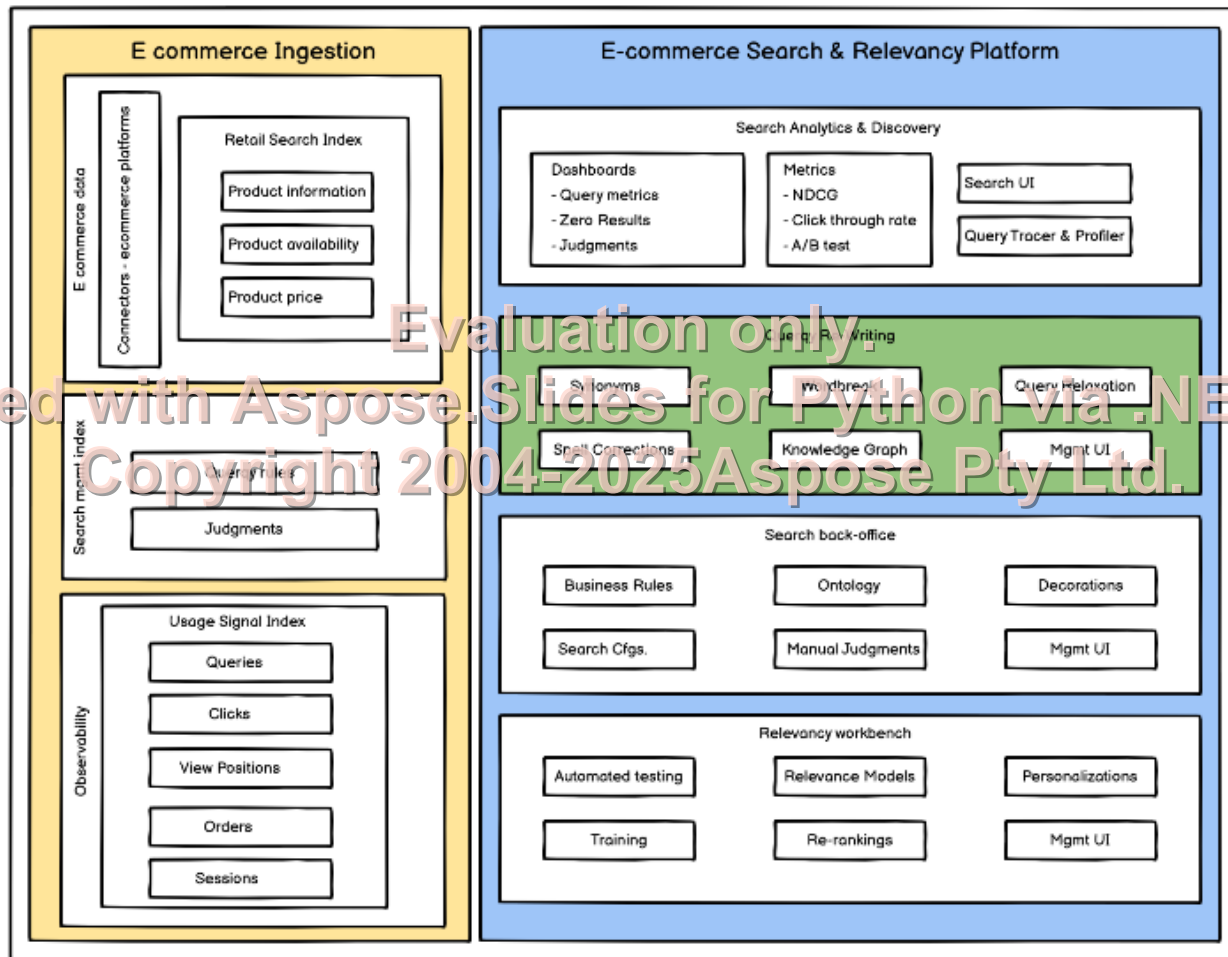
12:37 PM · Apr 6, 2022 · Twitter for Android

Save the date: Sept 21 2022

 **OpenSearchCon**
SEPTEMBER 2022

1 10 10

OpenSearch Relevancy Engineering : E-commerce



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“You want to implement a new search? This is a great idea. We will give you a long list of requirements. As soon as you have implemented all the features we will somehow compare the searches and decide whether we want to have it or not.”

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- Teams sliced by categories (category managers)

- Smartphones

- Notebooks

- ...

- Overall responsibility

- Discounts

- Promotions

- Findability

- ...

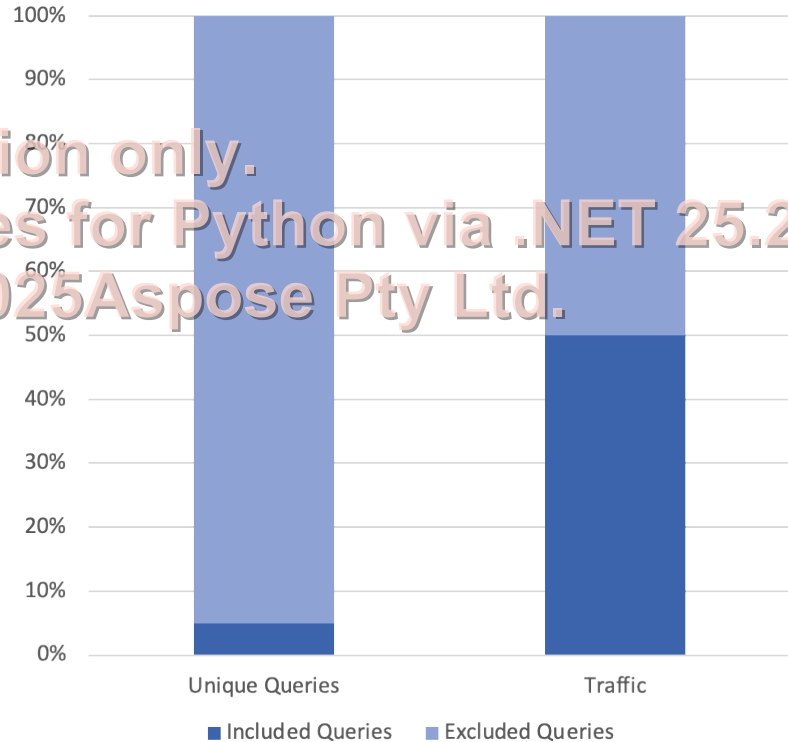
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Maintainable amount of
queries



"I don't care about algorithms. I need the following products to be at the top for several queries at next Tuesday between 5 and 10 pm. Thank you."

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- Singles' day (139 bn in China in 2021)

- Black Friday

- Valentines Day

- Thanksgiving

- Christmas

- ...

11.11

光棍节

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“Your machine learning learns the wrong things. Please tell it to push our private labels!”

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- Customer satisfaction / inspiration / experience

- Margin

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- Promotions

- Private labels

- Manufacturer deals

- Storage cost

- Return cost

- Sponsored products

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“Well, you finally did it and released a new search
this is awesome ... uhm ... we are all really excited about
this and ... uhm ... what about AI?”

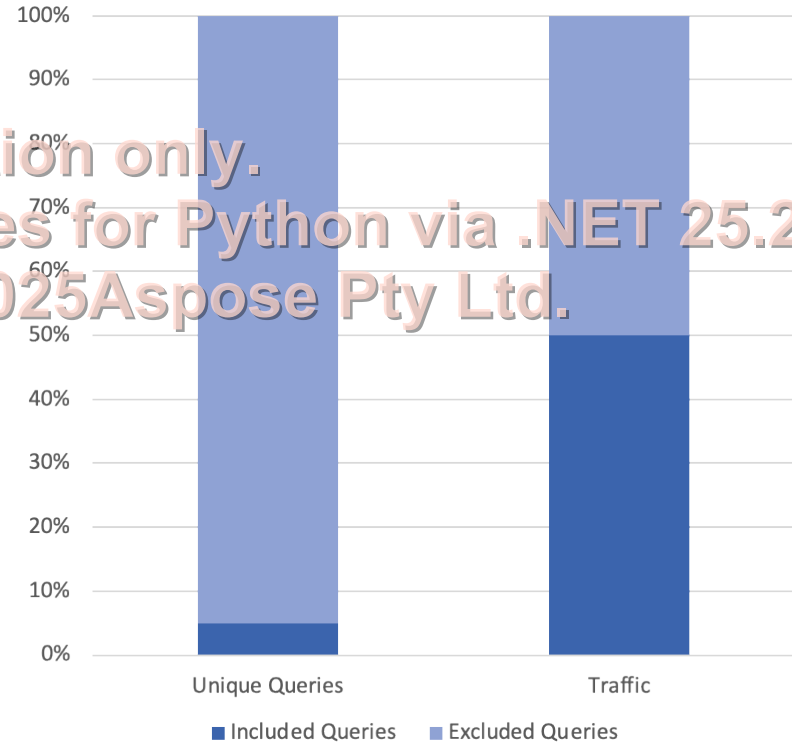
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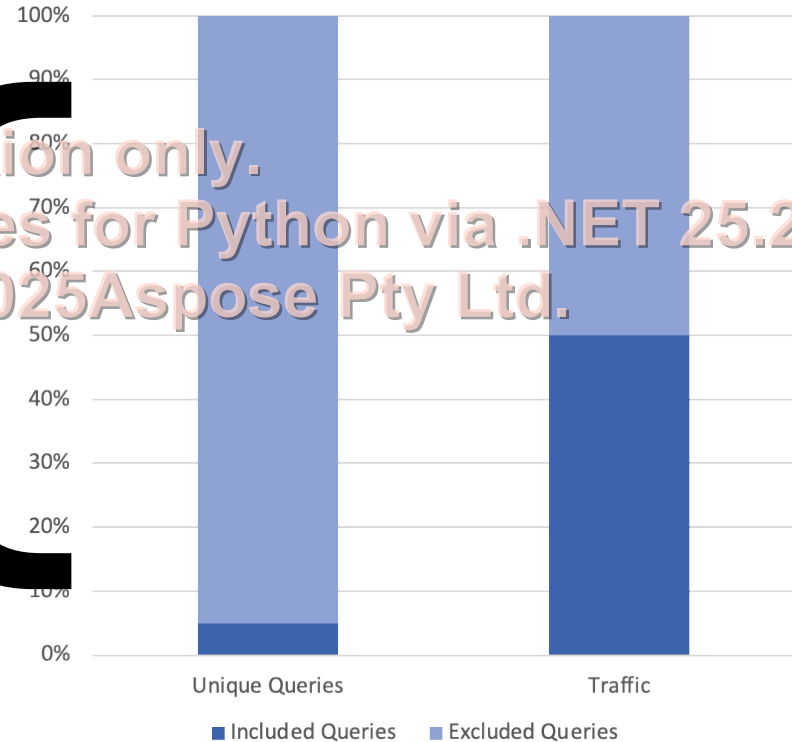
This is the must-have



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This is the potential

This is the must-have



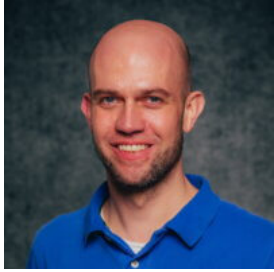
- Continuous improvement & maintenance
- Enablement of Category Managers

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- Query rewriting
 - Wordbreak
 - Spell Correction
 - Synonyms / Graphs
 - Boosts
 - Semantic filters
 - ...

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- Query (library/plugin for search business rules)
- SMUI (UI for rule maintenance)
- Splainer (tracing / debugging of result scores)
- Quepid (manual judgments)
- Blacklight / ReactiveSearch (search UI)

Querqy is a library and an open source query rewriting plugin for Solr, Elasticsearch and (soon) OpenSearch

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Walmart Labs



GALAXUS



digitec.ch

KLINGEL
Gruppe

... and others ...

- Source code: <https://github.com/JohannesDaniel/querqy-opensearch>
- Roadmap: <https://github.com/orgs/opensearch-project/projects/1>

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- OpenSearch SQL lets you write queries in SQL rather than the OpenSearch query DSL

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- SQL supports
 - Aggregations
 - Full-text Search
 - Functions
 - JDBC
 - ODBC

Query Workbench

Query Editor

SQL: SELECT * FROM accounts WHERE balance > 10000

Run Query

Output

| id | name | balance | interest | status | type | category | created | updated | deleted |
|----|-------|---------|----------|--------|----------|----------|------------|------------|---------|
| 1 | John | 12000 | 0.05 | Active | Checking | Personal | 2023-01-01 | 2023-01-01 | 0 |
| 2 | Jane | 8000 | 0.03 | Active | Savings | Personal | 2023-01-01 | 2023-01-01 | 0 |
| 3 | Bob | 15000 | 0.07 | Active | Checking | Business | 2023-01-01 | 2023-01-01 | 0 |
| 4 | Alice | 9000 | 0.04 | Active | Savings | Business | 2023-01-01 | 2023-01-01 | 0 |

Download

Sample session dataset:

- We created sample session data that captures queries, product clicks and checkout information
- The products are subset of category `printers` from Chorus Dataset
- Attributes stored: `session_id`, `query`, `product_click`, `checkout details`

```
photo_printer =>
UP(20): 1231616
UP(18): 469890
UP(16): 1724761
```

```
printer =>
UP(11): 3161192
UP(8): 907118
```

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```
plugins/_sql?format=json|csv|raw
```

```
{
  "query": "SELECT FROM my_index LIMIT 50"
}
```

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- Using the output of OpenSearch SQL, we can update the query rules
- Go a step further, to automate the query rules with SQL REST APIs

- Piped Processing Language (PPL) is a query language that lets you use pipe (|) syntax to explore, discover, and query data stored in OpenSearch, especially for observability.

```
search source=logs  
| where age > 18  
| fields firstname, lastname
```

SAMPLE RESPONSE

| firstname | lastname |
|-----------|----------|
| Amber | Duke |
| Hattie | Bond |
| Nanette | Bates |
| Dale | Adams |

- Use OpenSearch PPL to create graphs, charts and panels.
- Create visualization and saved queries from clickstream logs, session information, service logs in Events Analytics.
- Create operational panels to aggregate all the visualizations in a single pane.

100% open source work!

<https://www.linkedin.com/in/ianrudra> - lets talk!

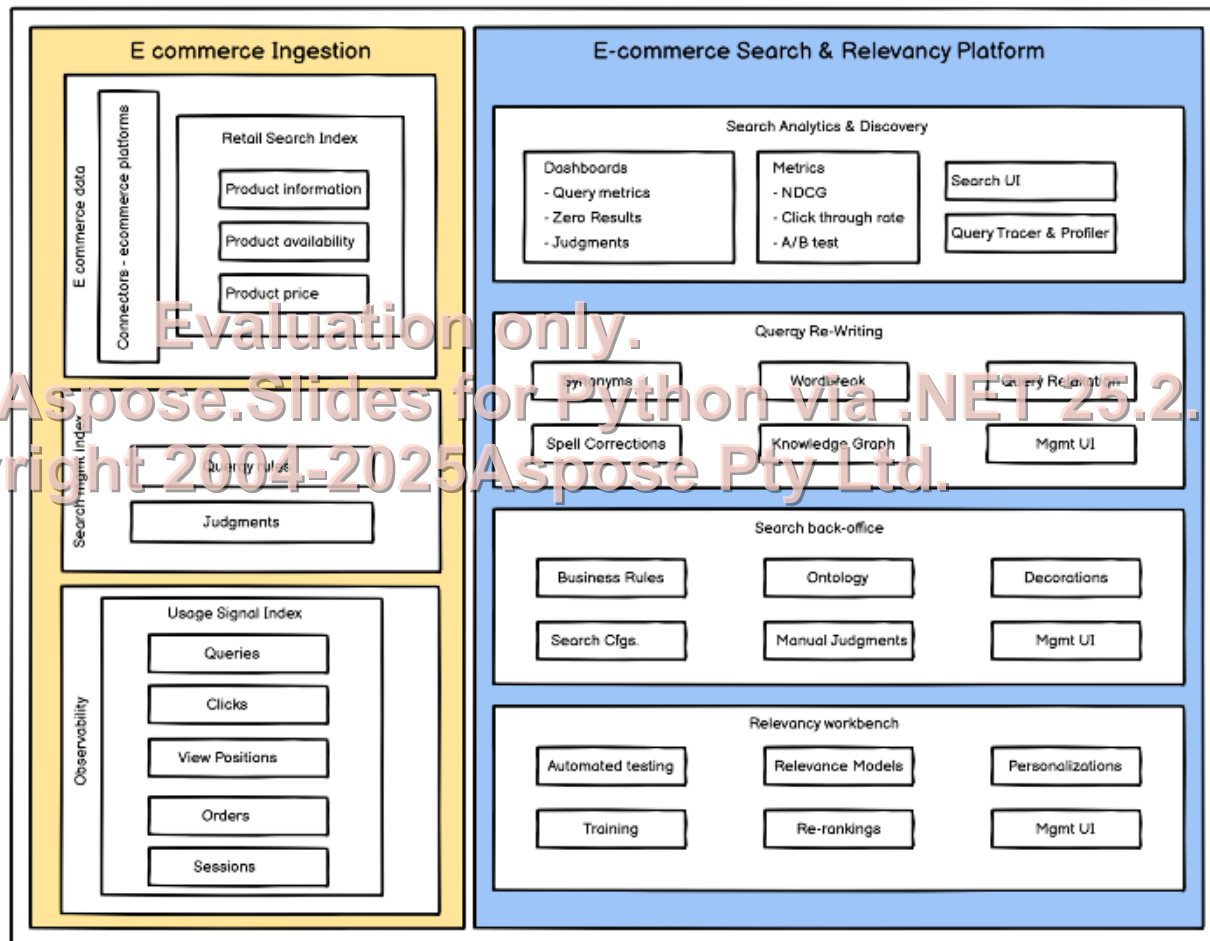
- Greater Seattle Areas
- Vancouver CA
- Berlin, Germany
- Bangalore, India
- Shanghai
- Fully remote!

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OpenSearch Relevancy Engineering : E-commerce



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