Couchbase

2023 Software Developer

TRENDS, CHALLENGES & OPPORTUNITIES

Digital innovation is accelerating with no end in sight, pushing developers who work with databases up to – and way over! – their capacity. They want more automation of repetitive, lower-value tasks in their day-to-day workflows so they can redirect their time and talent to higher-value projects like creating business-critical applications. What's more, they rank the familiarity of SQL – the world's most broadly known query language – as a top productivity driver. This underscores the importance of deploying a database with both the most modern functionality and the ability to interface with it without having to learn a whole new language.

Developer Workloads

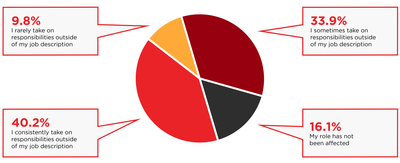
are Spiraling Up and Out of Control

94.9% of developers are at or over capacity

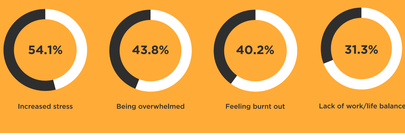
Only 5.1% of developers have bandwidth to take on more projects

How developers describe their current workload:

As developer workload explodes, the vast majority have even been taking on additional responsibilities outside of their job description over the past 12 months.



All of this extra work is taking its toll. The developers whose roles have been impacted and are taking on responsibilities outside their job description, said they're experiencing...



Automation and SQL-based Database Query Tools

Top Developer Wishlist to Boost Productivity

Developers identified automation tools and familiar SQL query language as the top two features to increase their productivity, but what's getting in the way of their productivity in the first place?

Non-Relational Databases are the Future

In the coming year, developers aim to prioritize increasing scalability, reducing costs and maintaining data governance compliance for their database infrastructure. Notably, a majority of respondents (87.2%) primarily use legacy relational databases to build applications, while non-relational databases are the primary database used by 6.6% and growing, as developers look for more flexibility and agility beyond relational.

Factors That Influence Developers To Explore Non-Relational (I.e., NoSQL) Databases

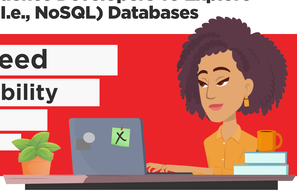
59.8% – Speed

56.6% – Flexibility

50% – Security

47.0% – Scalability

44% – Cost savings



Developer Hiring and Career Trends

Hiring developers with the right skill set remains a significant challenge in today's evolving employment landscape

86% at manager-level and above are having challenges hiring developers with the right skill set.

The Top Technical Skills Hiring Managers Seek In Developers:

1. Cloud-based technologies
2. Structured Query Language (SQL)
3. Experience working with teammates throughout the data lifecycle

Developers can find resources about Couchbase and get started here >

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