



Insights into the Current State of Developer Skills and Trends

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OUTLINE



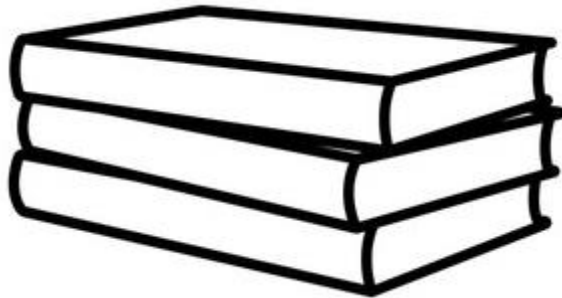
- Executive Summary
- Introduction
- Methodology
- Results
 - Visualization – Charts
 - Dashboard
- Discussion
 - Findings & Implications
- Conclusion
- Appendix

EXECUTIVE SUMMARY



- Popular languages
 1. Python
 2. java
 3. R
- Most desirable Databases
 1. PostgreSQL
 2. MongoDB
 3. Redis
 4. MySQL
 5. Elasticsearch
- Gender Gap in IT industry

INTRODUCTION



- About: Analyzing the trends in software development
- Purpose:
 - Identify skill requirements for future
 - What are the top programming languages in demand?
 - What are the top database skills in demand?
 - What are the popular IDEs?
- Audience: Human Resource and IT Head

RESULTS

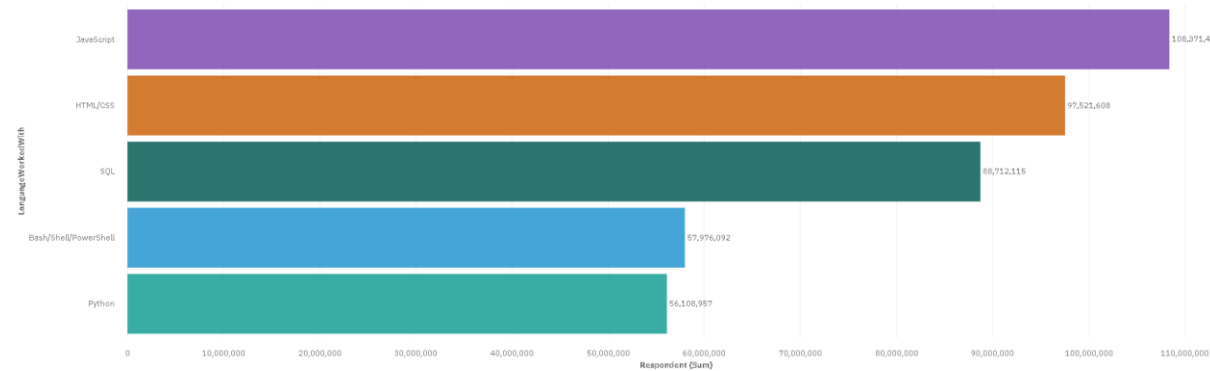


PROGRAMMING LANGUAGE TRENDS

Current Year

Top 5 Language Worked With

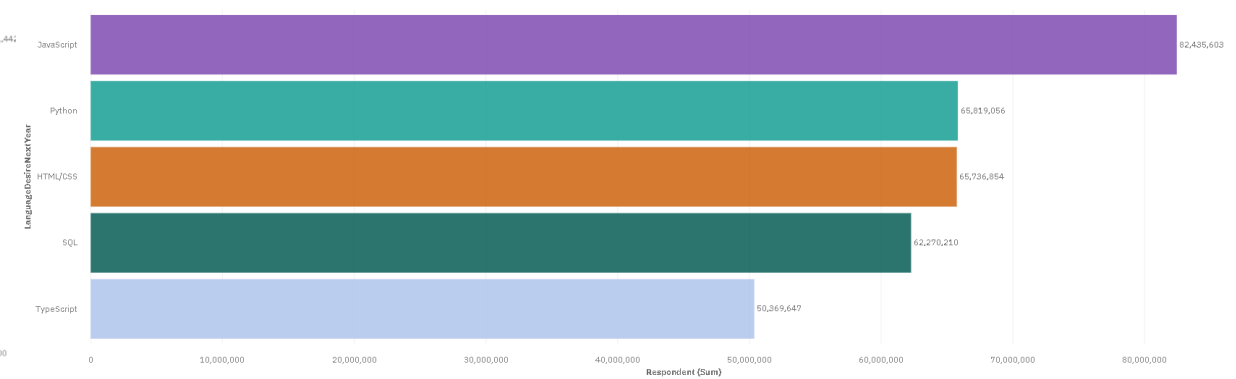
Language Worked With
● Bash/Shell/PowerShell ● HTML/CSS ● JavaScript ● Python ● SQL



Next Year

Top 5 Language Desire Next Year

Language Desire Next Year
● HTML/CSS ● JavaScript ● Python ● SQL ● TypeScript



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

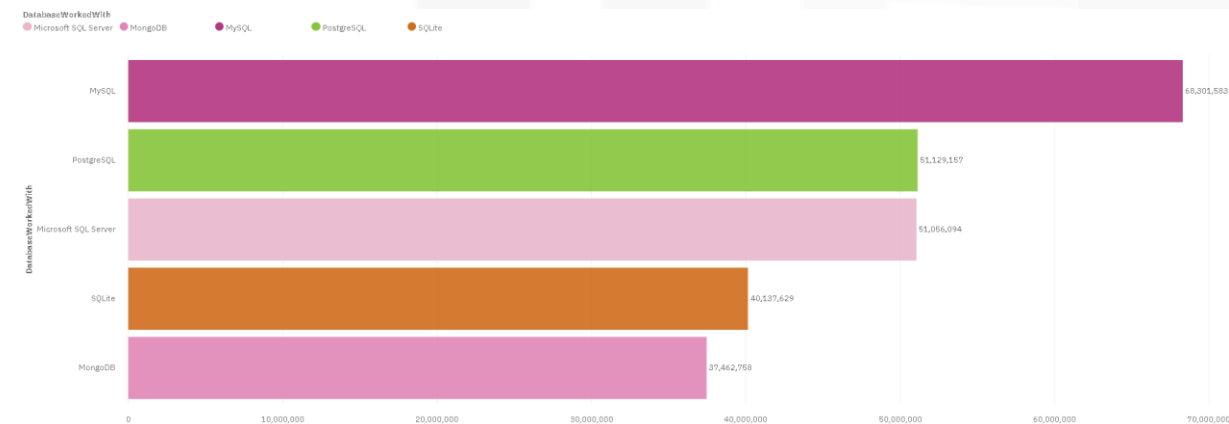
- JavaScript, HTML/CSS, SQL are top 3 this year
- Python and Typescript becoming popular next year
- PowerShell edged out in next year

Implications

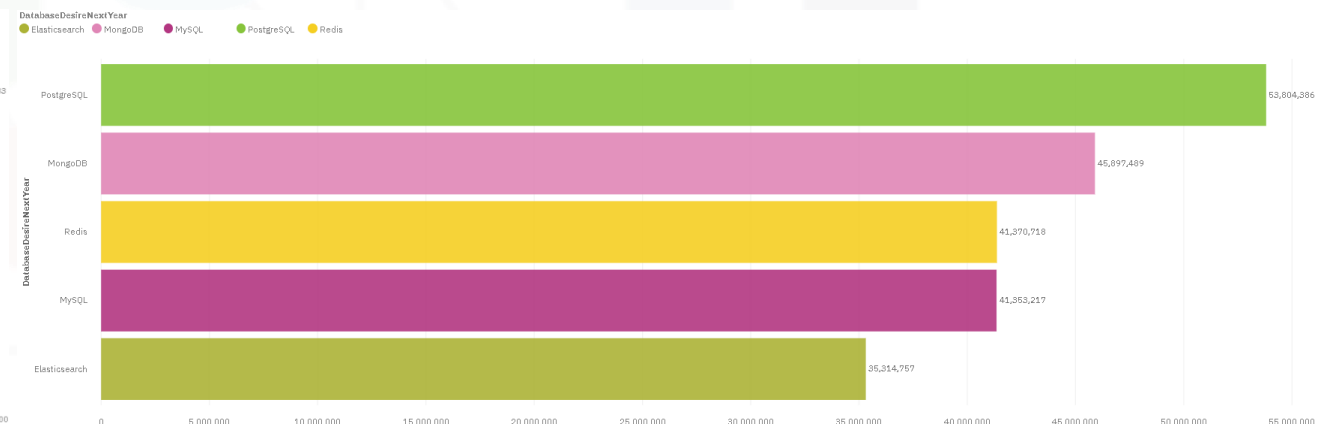
- High demand for Web Development
- Consistent demand for HTML/CSS, Java, SQL, and Python.
- With AI and ML in rising demand, Python is best choice

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Demand decreased for MySQL, SQLite and Microsoft SQL server.
- Demand increasing for PostgreSQL and MongoDB
- New language in top 5 Elasticsearch and Redis

Implications

- Open-source databases are still preferable in companies
- NoSQL databases will make an impact for storing non-relational data
- Consistent Demand for PostgreSQL and MongoDB

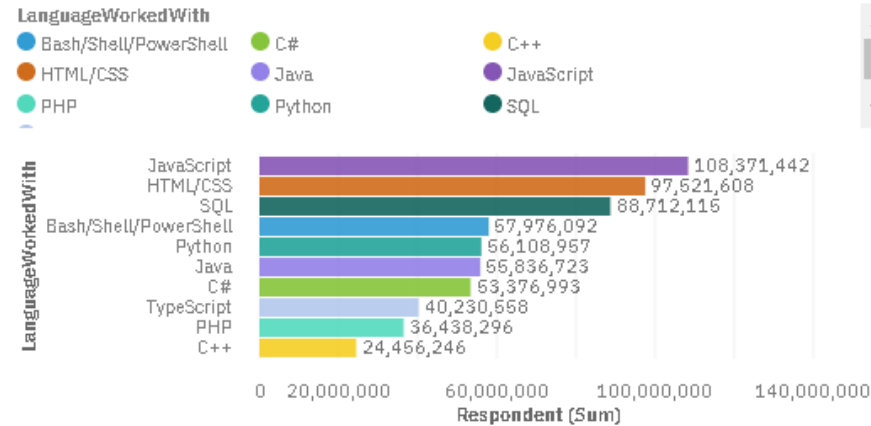
DASHBOARD



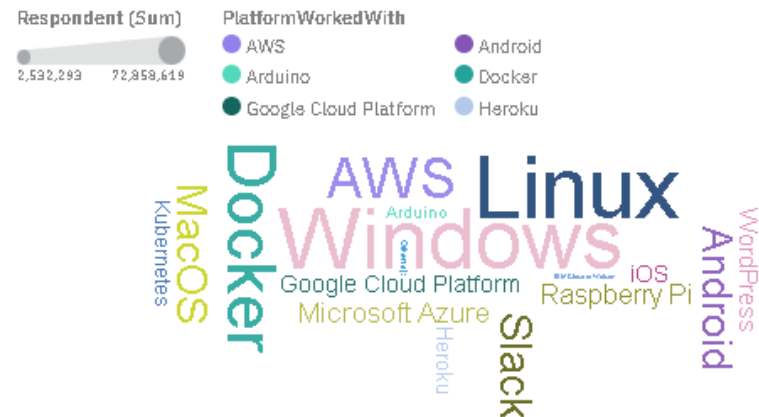
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DASHBOARD TAB 1

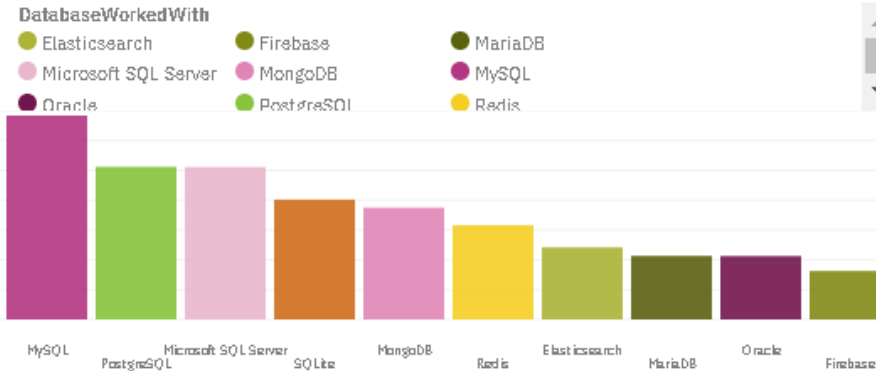
Top 10 Language Worked With



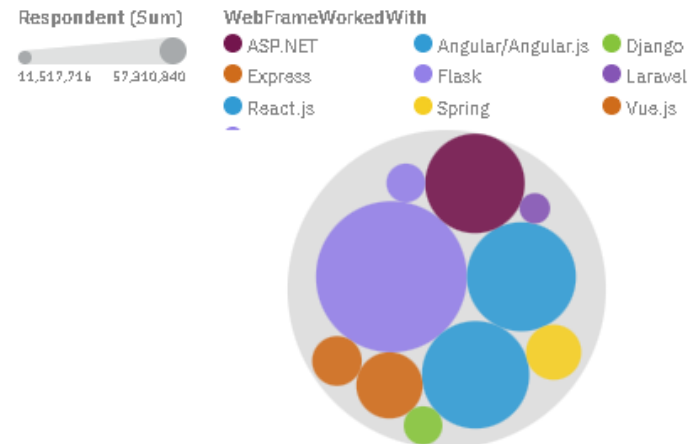
Word cloud for Platform Worked With



Top 10 Database Worked With.

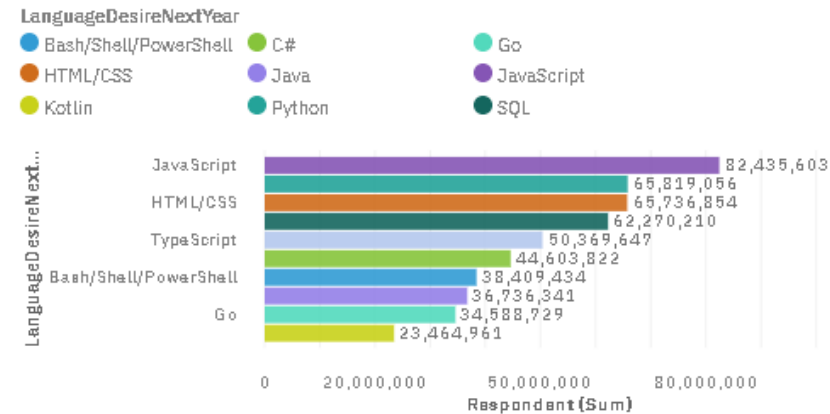


Top 10 WebFrame Worked With

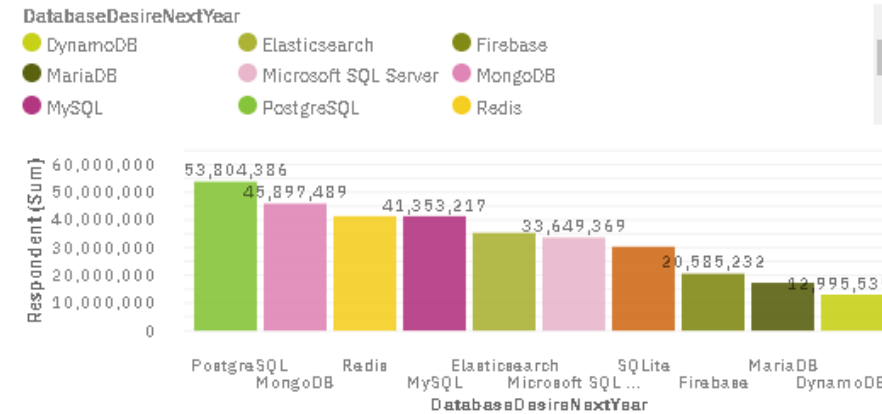


DASHBOARD TAB 2

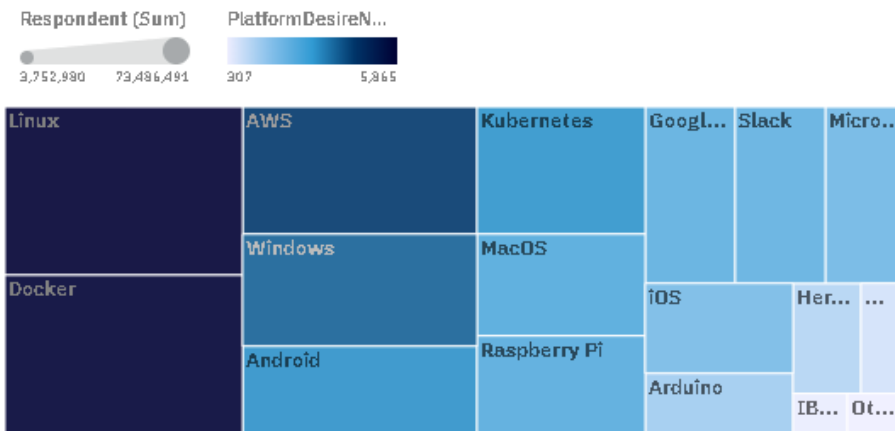
Top 10 Language Desire Next Year



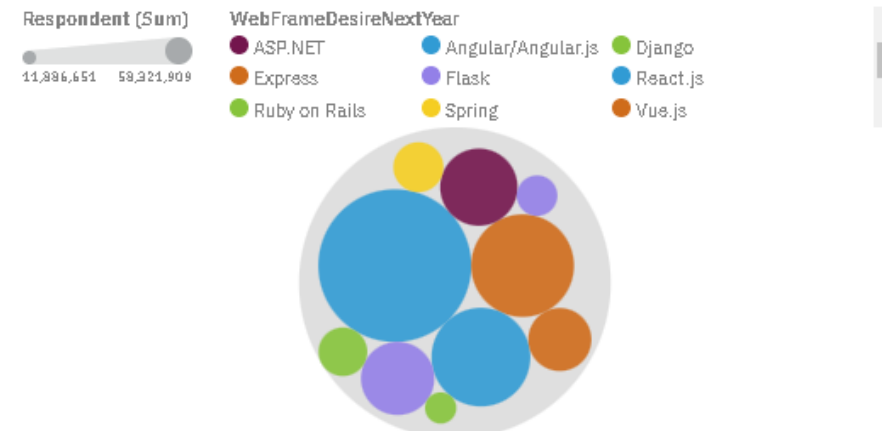
Top 10 Database Desire Next Year



Platform Desire Next Year



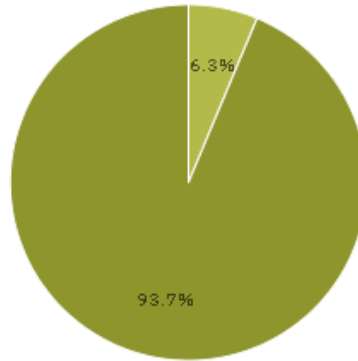
Top 10 Web Frame Desire Next Year



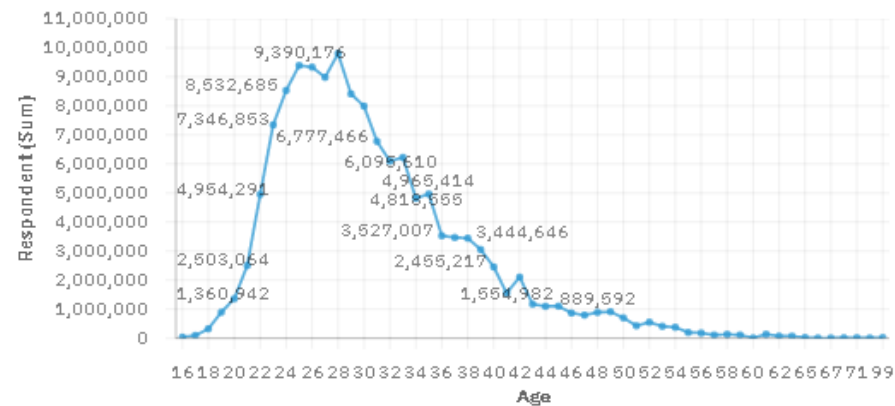
DASHBOARD TAB 3

Respondent classified by Gender

Gender
● Woman ● Man

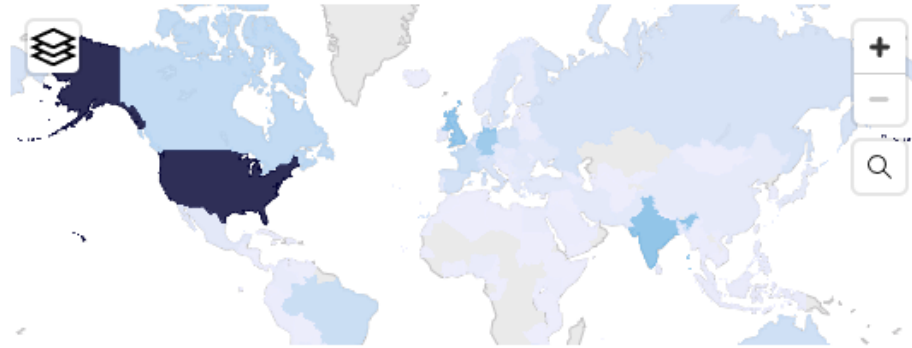


Respondent Count by Age



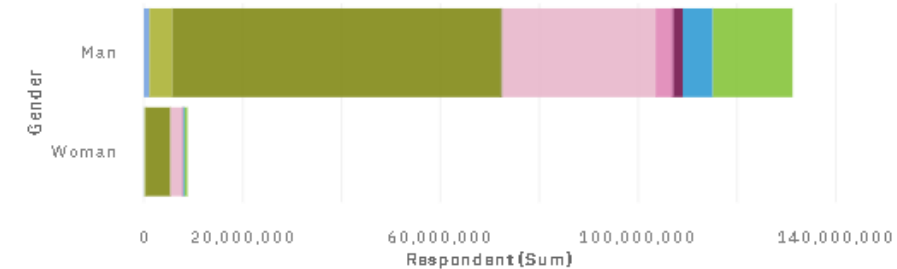
Respondent Count for Countries

Respondent (Sum)
865 99,154,240



Respondent Count by Gender, classified by Formal Education Level

EdLevel
● (no value) ● Associate degree
● Bachelor's degree (BA, BS, B.E... ● I never completed any formal ...
● Master's degree (MA, MS, M.E... ● Other doctoral degree (Ph.D, E...



DISCUSSION



- Technology Trends now and future
- Training and Reskilling workers
- The IT industry needs to diversify in order to eliminate gender gap.
- Bridge divide of technology gaps in developing countries

OVERALL FINDINGS & IMPLICATIONS

Findings

- Popular Languages: JavaScript and Python
- Popular Databases: PostgreSQL
- Fast changing technology every year.
- Gender gap in technology jobs
- Platforms like Docker and AWS are growing

Implications

- Proficiency in higher demand skills can lead to more opportunities.
- Companies need to be flexible and adjust to rapid changes
- Need to spread technology out to lagging countries
- Shift to faster app deployments and cloud services in future

CONCLUSION



- New technologies lead to varied trends and demands.
- Most popular programming Languages: JavaScript - Python
- Most popular database: PostgreSQL
- In future, incorporate Machine Learning to predict trends and salaries
- The Information Technology field needs diversity.

APPENDIX



Word cloud for Platform Worked With

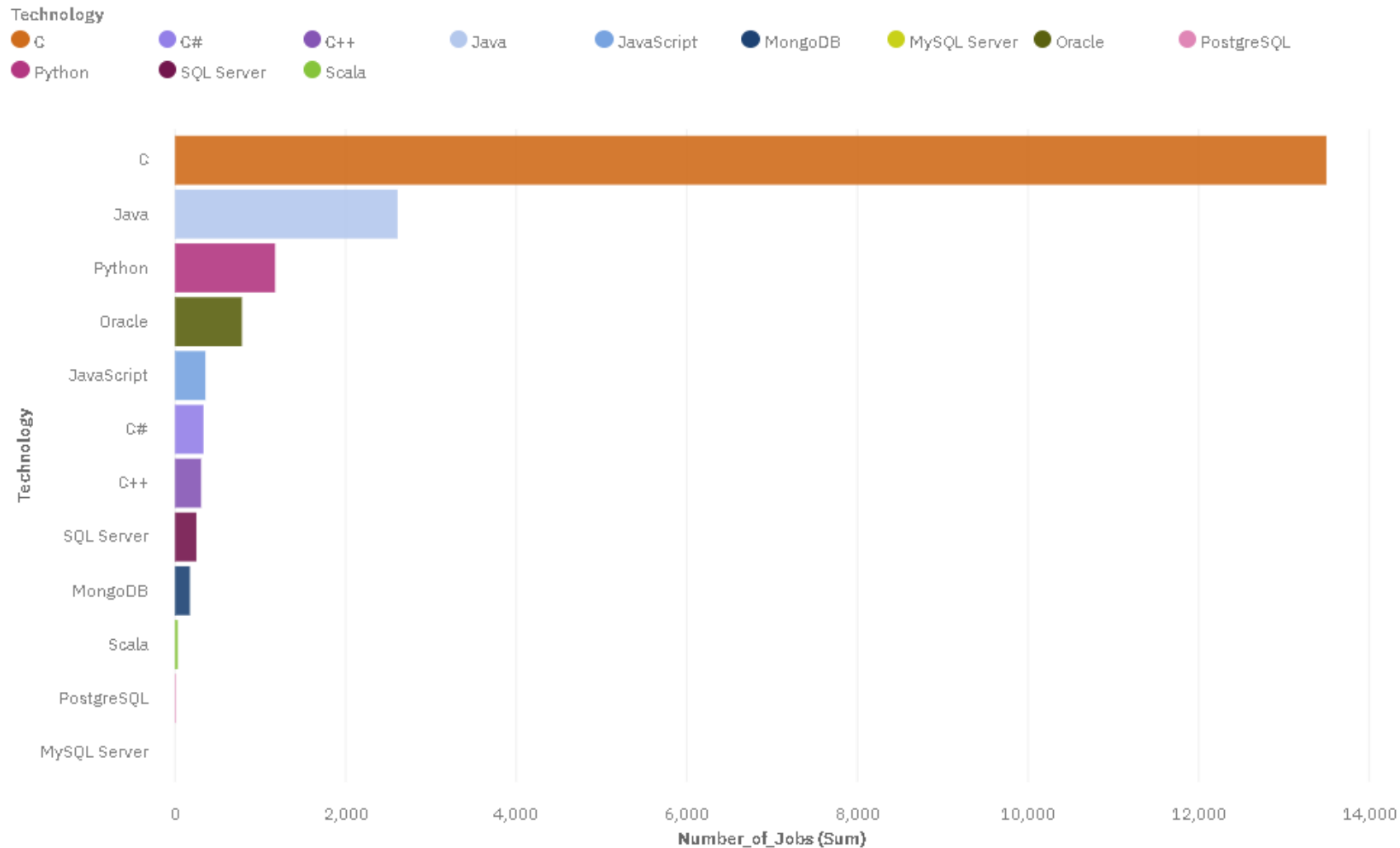
Respondent (Sum)
2,032,295 72,866,619

PlatformWorkedWith
AWS
Other(s):

Android
Raspberry Pi
Arduino
Slack
Docker
Windows
Google Cloud Platform
WordPress
Heroku
iOS
IBM Cloud or Watson
Kubernetes
Linux
MacOS
Microsoft Azure



JOB POSTINGS



POPULAR LANGUAGES

