



Technology Usage and Trends Analysis

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OUTLINE



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

EXECUTIVE SUMMARY



- Current Technology Usage
 1. Top 10 Languages
 2. Top 10 Databases
 3. Platforms
 4. Top 10 WebFrames
- Future Technology Trend
 1. Top 10 Languages desired for the next year
 2. Top 10 Databases desired for the next year
 3. Desired Platforms for the next year
 4. Top 10 WebFrames desired for the next year
- Demographics
 1. Respondent classified by gender
 2. Respondent count for countries
 3. Respondent count by age
 4. Respondent count by gender and classified by education level

INTRODUCTION



- The top programming languages in demand
- The top database skills in demand
- The popular IDEs
- Correlation Between numerical data
- Scraping internet web sites and accessing APIs to collect data

METHODOLOGY



- Collecting Data Using APIs
- The GitHub Jobs API allows us to search, and view jobs with JSON over HTTP.
- GitHub Jobs API allows anyone to query for the jobs based upon:
 - Technology like Python and MySQL.
 - City like New York and Bangalore.
 - Collecting Data using Webscraping

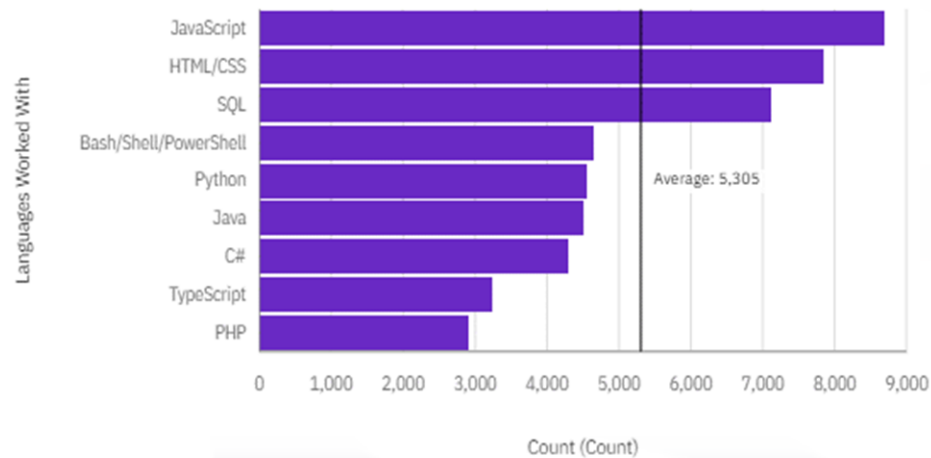
RESULTS

- JavaScript: Most popular language currently and projected to remain so in the future.
- HTML/CSS: Second most popular language currently and expected to maintain this position.
- Python: Shows a significant rising trend in future usage projections.
- Focus on mastering JavaScript, HTML/CSS, and Python to stay relevant.

PROGRAMMING LANGUAGE TRENDS

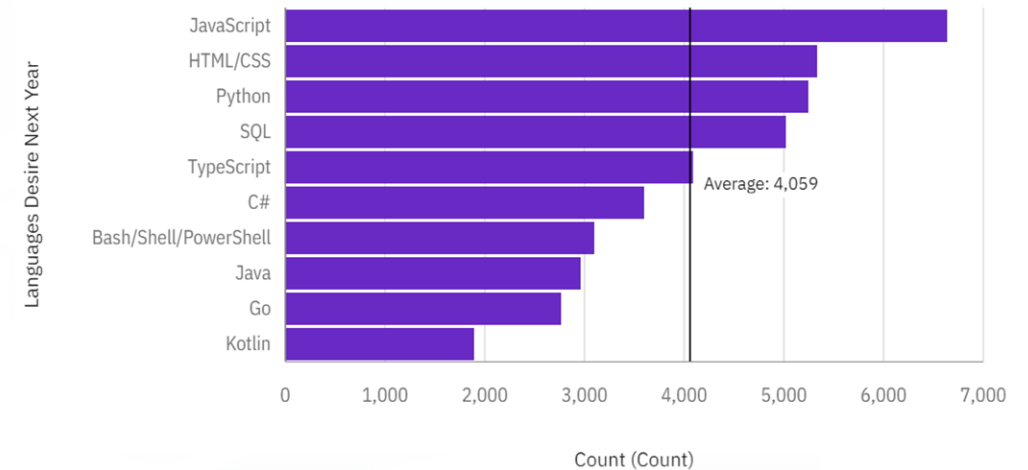
Current Year

Top 10 Languages Worked With



Next Year

Top 10 Languages Desire Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- JavaScript is the most popular language to use in current and also in future.
- HTML/CSS is the second most popular language to use in current and also in future.
- Python has the rising trend and is in the future trend.

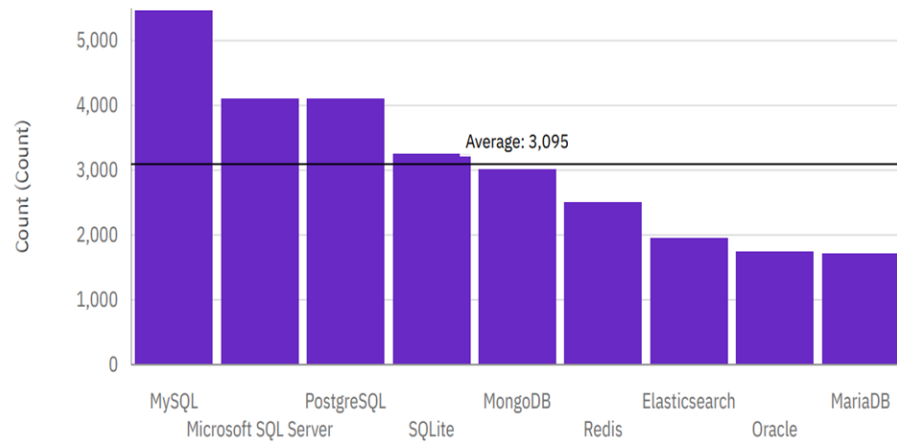
Implications

- JavaScript and HTML/CSS both have demand in current and future trend.
- Java, C#, C++ have lost their momentum. People are looking for other languages apart from them.
- Python is the new thread for near future and need to be focused.

DATABASE TRENDS

Current Year

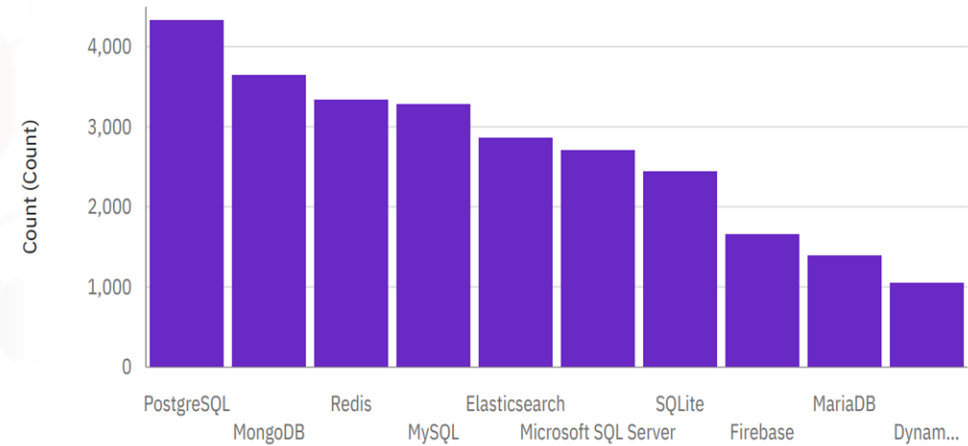
Top 10 Databases Worked With



Database Worked With

Next Year

Top 10 Database Desire Next Year



Database Desire Next Year

DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- RDBMS has the dominant trend in current usage.
- NON RDBMS have the dominant trend in future usage.

Implications

- People are highly interested to learn non-relational databases.
- It is clear that big data will become very popular in upcoming year.

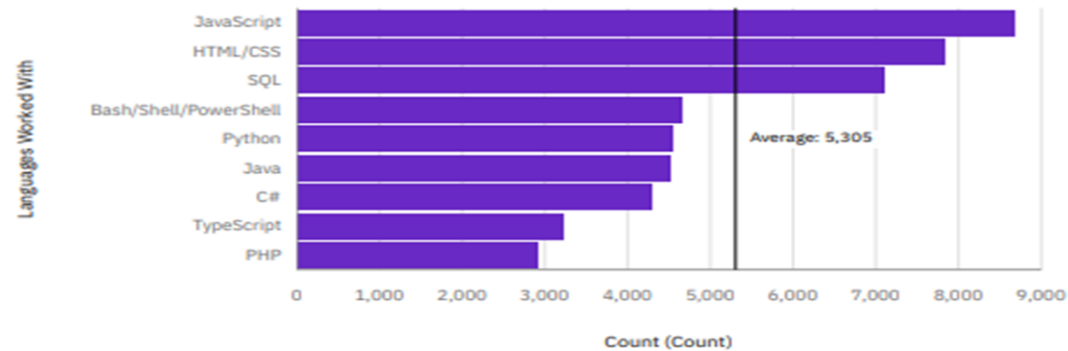
DASHBOARD



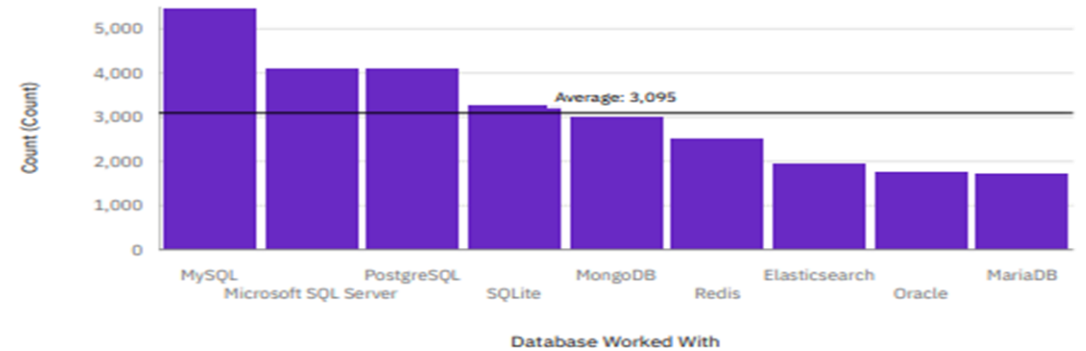
<https://github.com/Pavan782/Dashboard-Edx.git>

DASHBOARD TAB 1

Top 10 Languages Worked With



Top 10 Databases Worked With



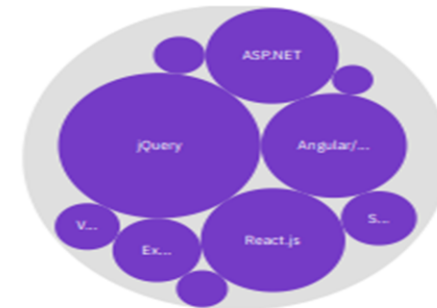
Platforms Worked With

Size (Count)



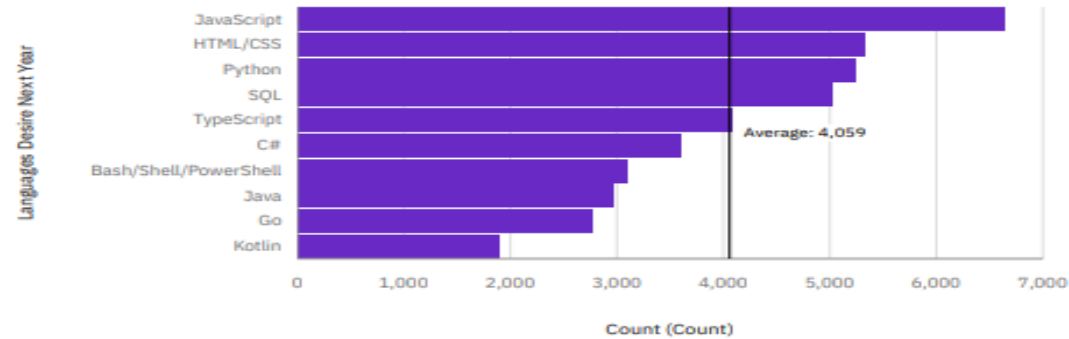
Top 10 WebFrames Worked With

Size (Count)

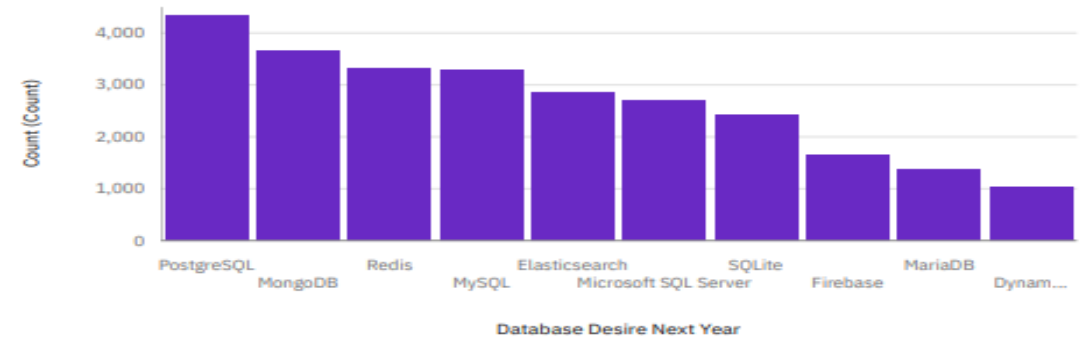


DASHBOARD TAB 2

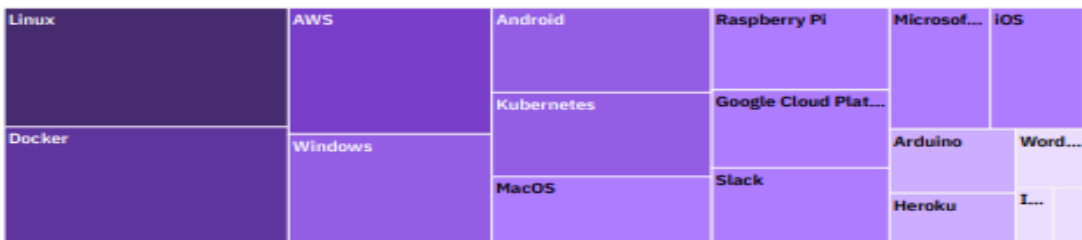
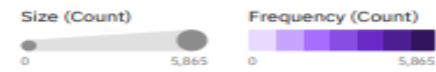
Top 10 Languages Desire Next Year



Top 10 Database Desire Next Year



Most Desired Platforms for Next Year



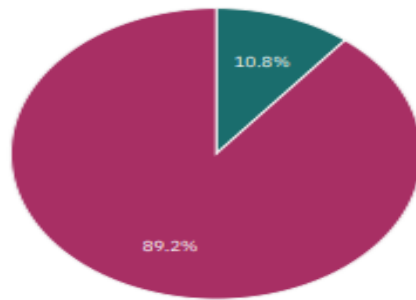
Top 10 WebFrame Desire Next Year



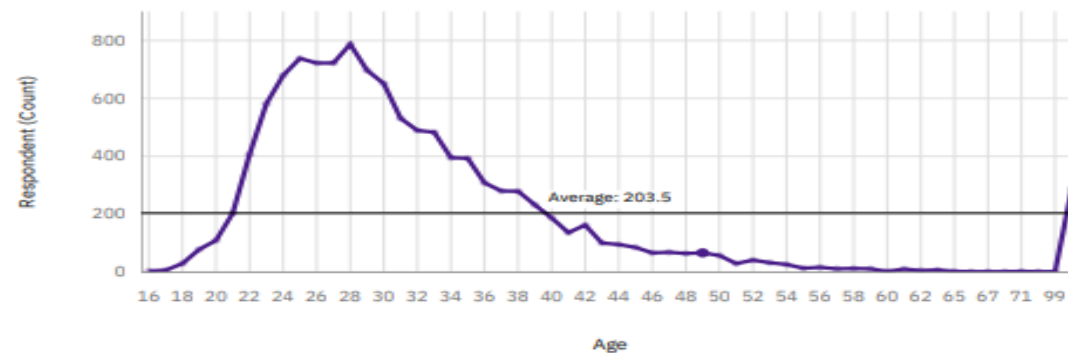
DASHBOARD TAB 3

Respondent by Gender

Gender
● Woman 10.8% ● Man 89.2%



Respondent by Age



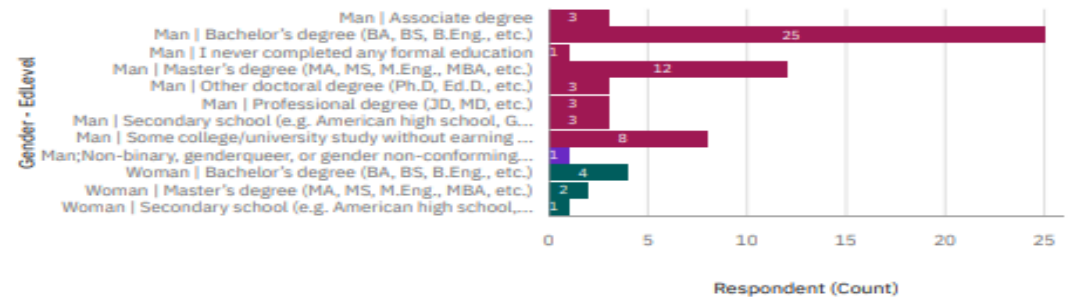
Respondent Count for Country regions

Respondent (Cou...
1 27



Respondent Count by Gender And Formal Education Level

Gender
● Man
● Man;Non-binary, genderqueer, or ...
● Woman



DISCUSSION



- It is clear from previous study that, the upcoming future is for JavaScript and HTML/CSS so the programming languages are going to be advanced in the future.
- The databases PostgreSQL and MongoDB are mostly desired in the future.

OVERALL FINDINGS & IMPLICATIONS

Findings

- The upcoming programming trend is for advanced programming languages like JavaScript and HTML/CSS.
- The upcoming trend for Databases is PostgreSQL and MongoDB.

Implications

- People are looking for advanced programming languages along with easy learning.
- People are looking for Data base cause data is everywhere

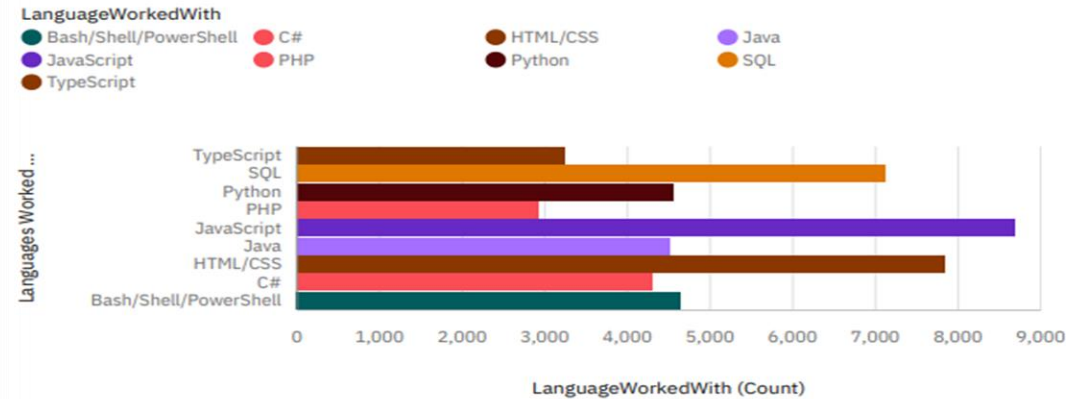
CONCLUSION



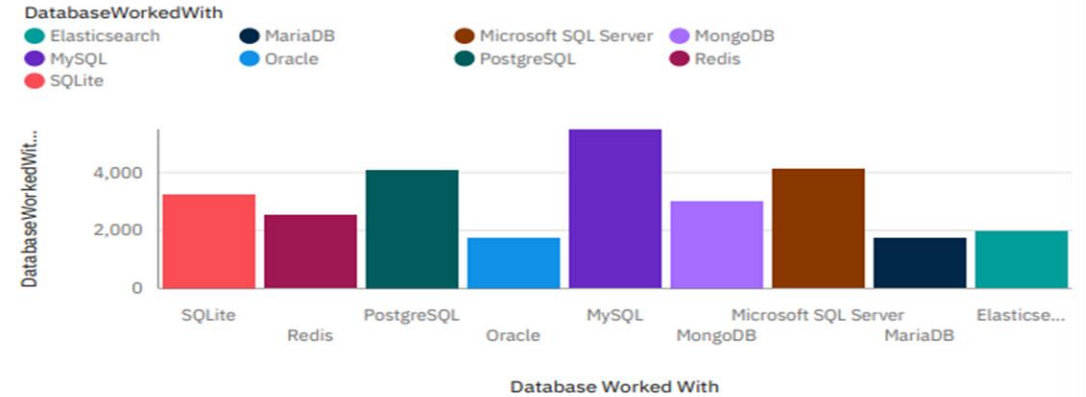
- The top programming languages in demand are JavaScript and HTML/CSS
- The top Database skills required in are PostgreSQL and MongoDB
- The popular IDEs are Python and MySQL
- Scraping Internet web sites and accessing APIs to collect data

APPENDIX

Top 10 Languages Worked With



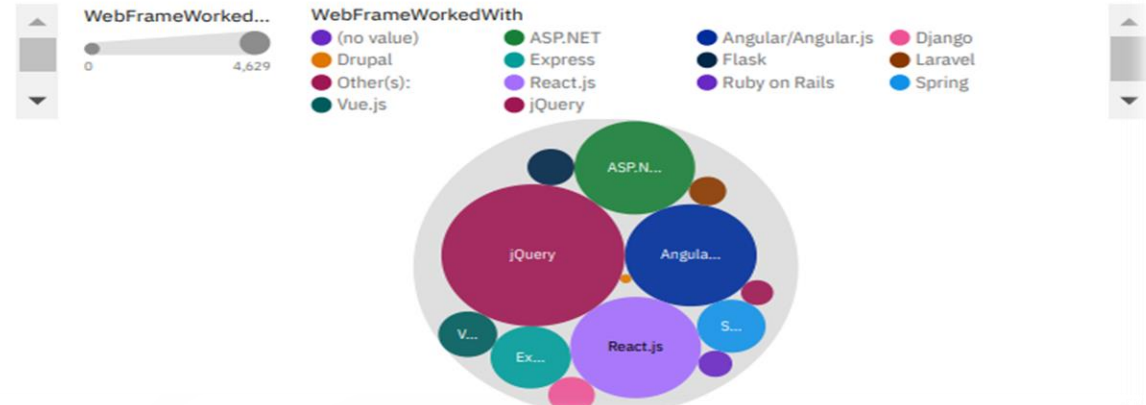
Top 10 Databases Worked With



Platforms Worked With

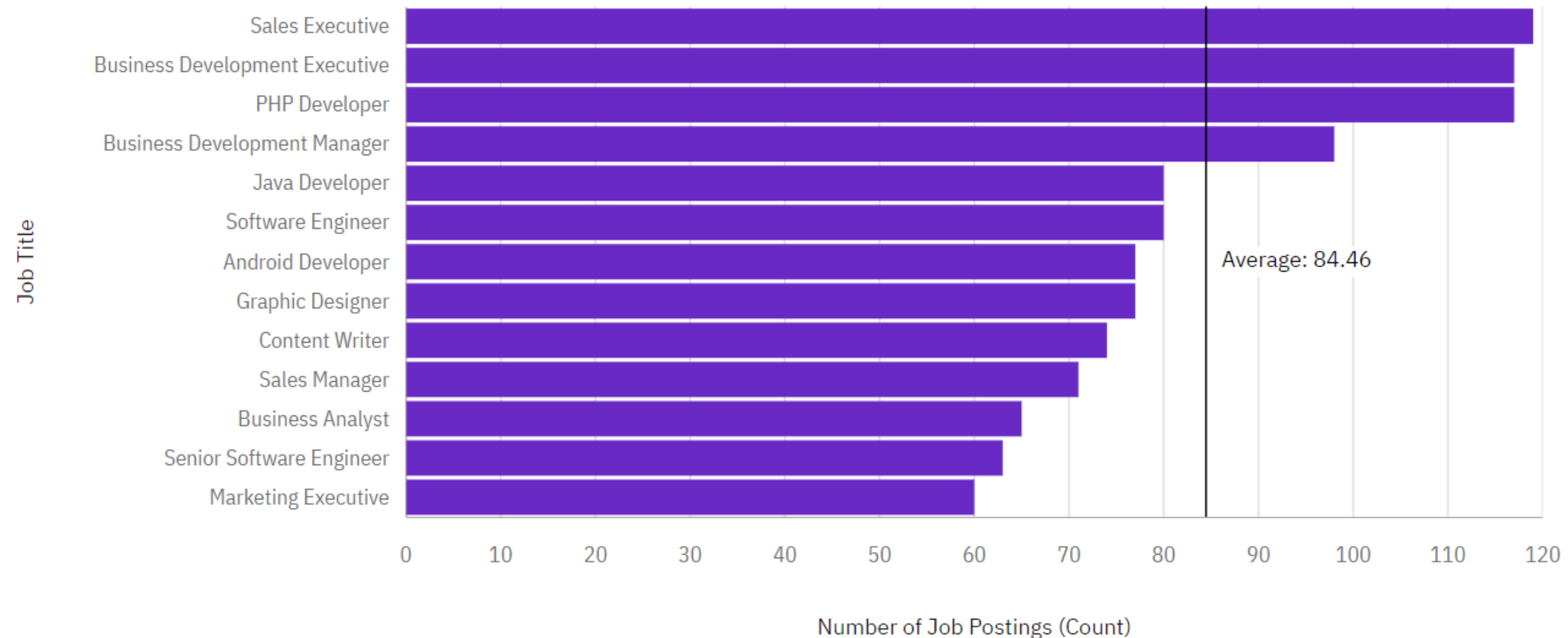


Top 10 WebFrames Worked With



JOB POSTINGS

Number of Job Postings by Job Title



POPULAR LANGUAGES

Top 10 Popular Languages By Salary

