



# The Future of Tech Analysis Presentation

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# OUTLINE

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

# EXECUTIVE SUMMARY

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- Programming Language Trends
- Demographic Insights
  - The survey respondents' age ranges from 22 to 40, with the majority falling within this age bracket.
  - The predominant countries of respondents include the USA, Canada, India, Brazil, UK, Germany, and Australia.
  - Male respondents constitute the majority with a representation of 91.9%.
- Databases Preferences
- Platform Shifts
- Web Framework Evolution

# INTRODUCTION

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- This report highlights survey findings on programming languages, databases, platforms, and web frameworks, revealing current usage and future trends. Collected from diverse software developers, the data provides valuable insights into the technology landscape. The analysis aims to identify prevalent technologies, anticipate shifts, and offer actionable recommendations, enabling informed decision-making in the rapidly evolving tech industry.

# METHODOLOGY

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- Data Collection
  - <https://stackoverflow.blog/2019/04/09/the-2019-stack-overflow-developer-survey-results-are-in/>
  - <https://www.kaggle.com/promptcloud/jobs-on-naukricom>
- Data Preprocessing
- Data Cleaning
- Data Analysis
- Data Visualization
- Presentation

# RESULTS

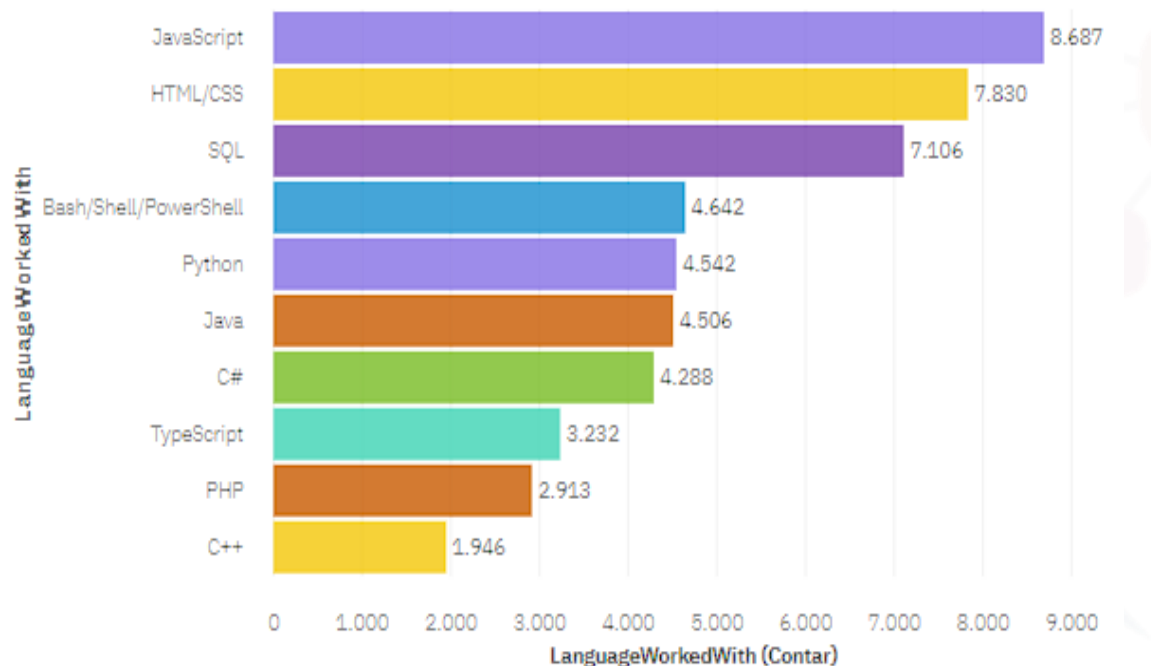
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- Programming Languages: JavaScript, HTML/CSS, and Python are the current top programming languages, with Python gaining popularity for the future.
- Databases: MySQL, SQL Server, and PostgreSQL lead the database landscape, while PostgreSQL, MongoDB, and Redis show promise for the future.
- Platforms: Windows, Linux, and AWS are widely used platforms, with Linux, Docker, and AWS gaining momentum.
- Web Frameworks: jQuery, Angular, and React are popular web frameworks, with React poised to dominate alongside Vue and Angular.

# PROGRAMMING LANGUAGE TRENDS

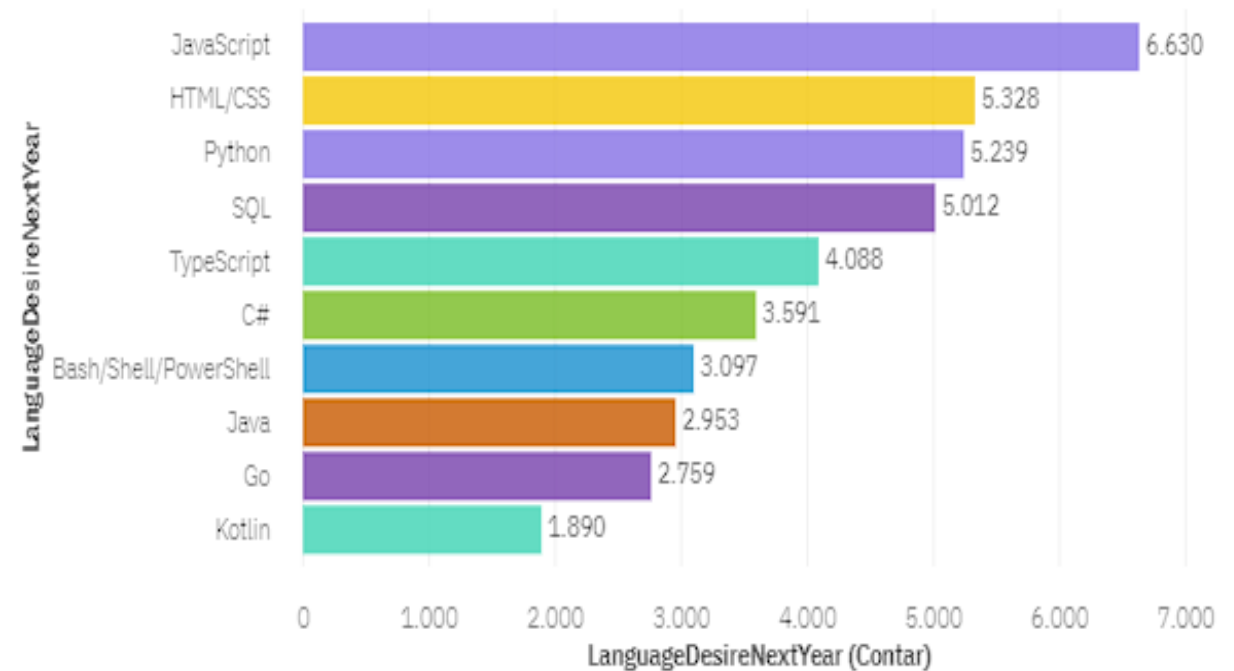
## Current Year

Top 10 languages worked with



## Next Year

Top 10 desired languages to work with in the next year



# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- JavaScript continues to be the most used programming language, indicating its significance in web development and interactive user interfaces. HTML/CSS remains a fundamental part of web development, providing the backbone for structuring and styling web pages. Python's growing popularity indicates its versatility and wide range of applications even in the web with flask or django.

## Implications

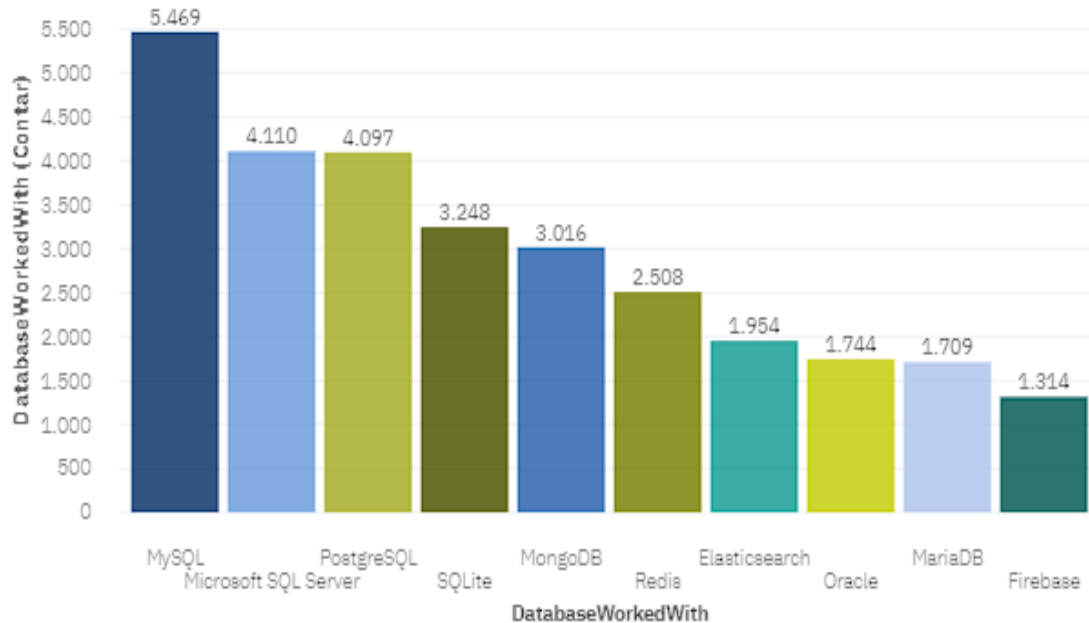
- Developers should focus on improving their JavaScript skills to meet the industry demand, learn typescript would be a good idea as it is a superset of javascript. And Python which is the number one in the data field, developers can benefit from learning and leveraging its powerful features for data analysis, machine learning, and automation tasks.



# DATABASE TRENDS

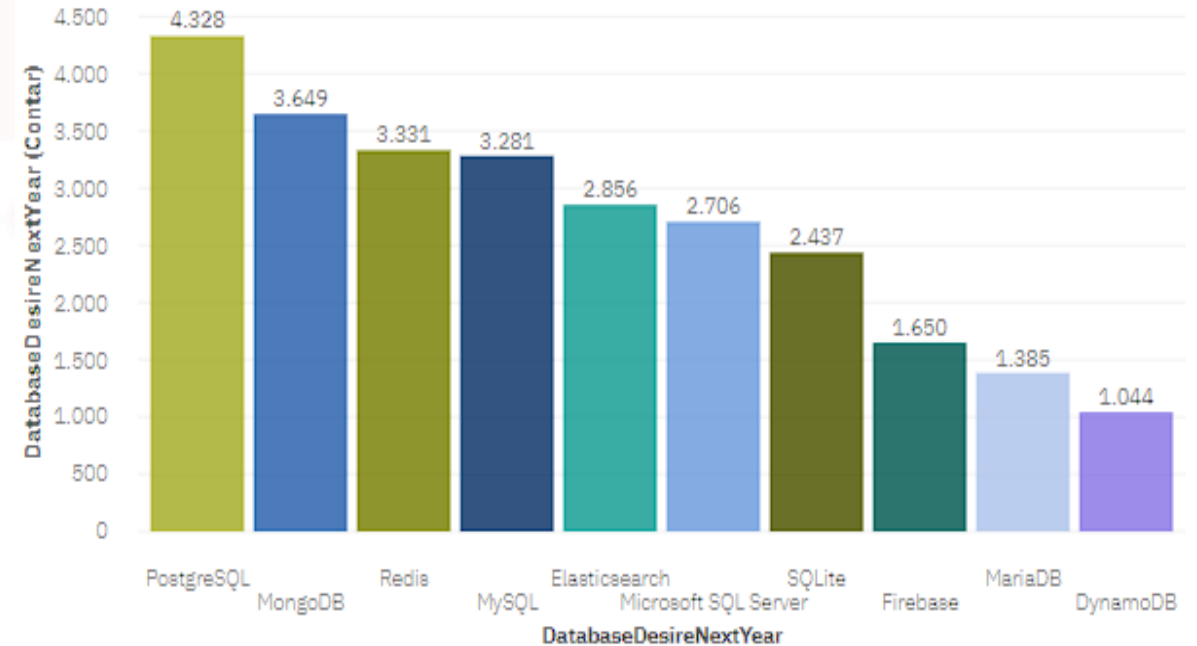
Current Year

Top 10 Databases worked with



Next Year

Top 10 databases desired to work with next year



# DATABASE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- The most commonly used databases at present are MySQL, SQL Server, and PostgreSQL. Looking ahead, PostgreSQL is expected to witness increased adoption. MongoDB and Redis are great NOSQL options.

## Implications

- Developers should prioritize gaining proficiency in PostgreSQL to align with the growing demand. Familiarity with MongoDB and Redis can provide an advantage, as these databases are gaining prominence in the industry.

# DASHBOARD

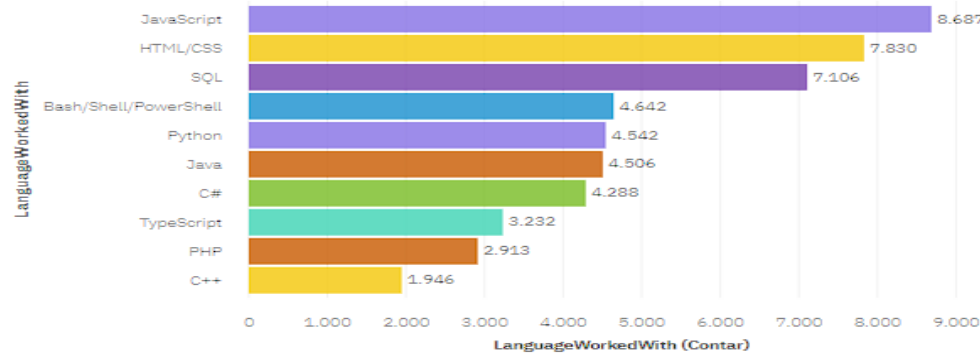
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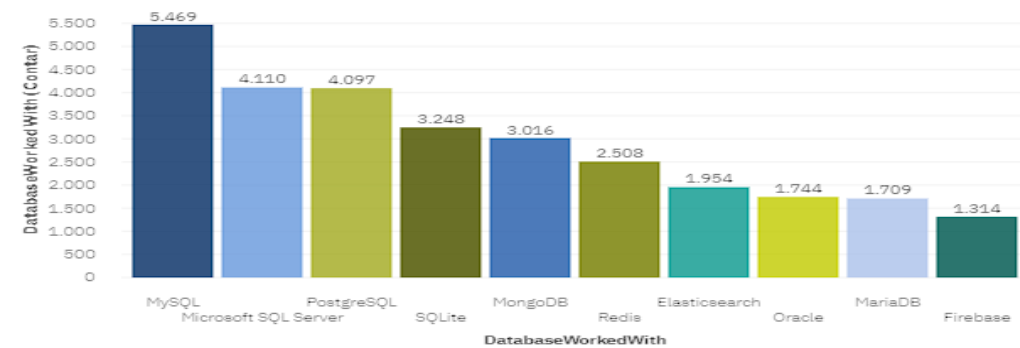
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# DASHBOARD TAB 1

Top 10 languages worked with



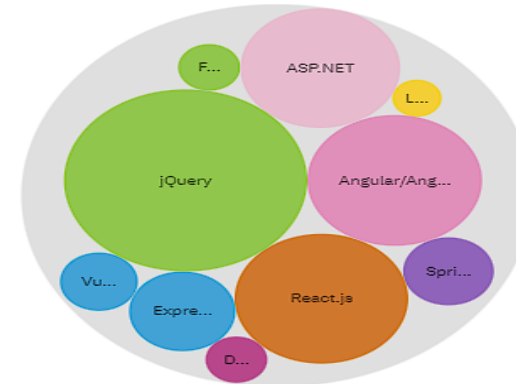
Top 10 Databases worked with



Platform worked with

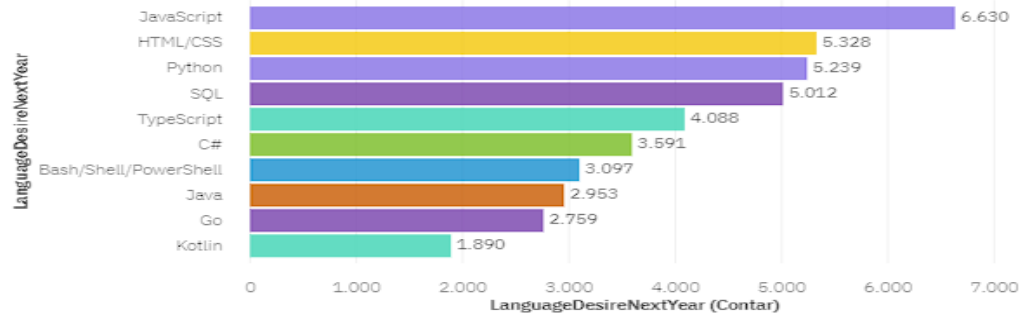


Top 10 WebFrame Worked With

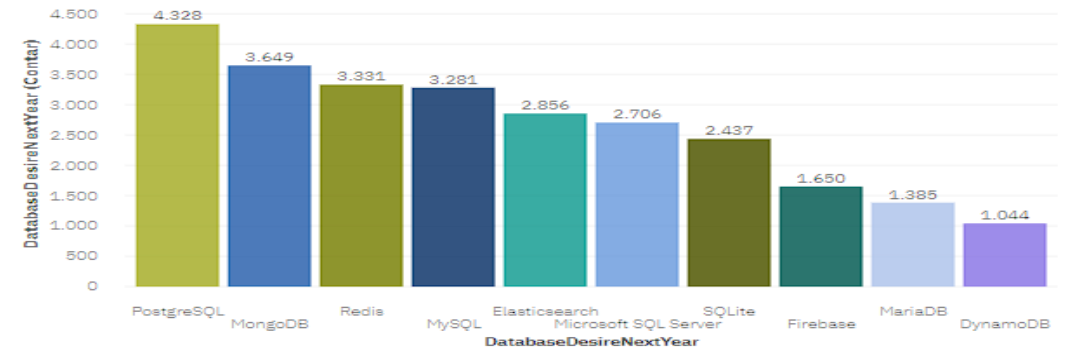


# DASHBOARD TAB 2

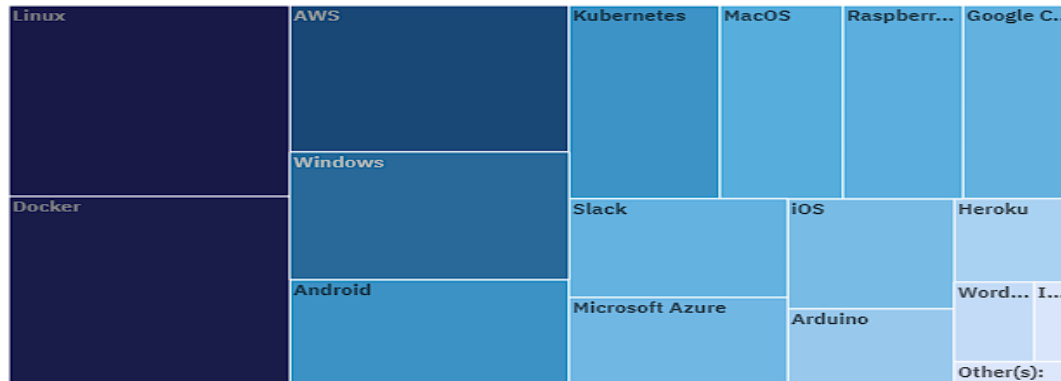
Top 10 desired languages to work with in the next year



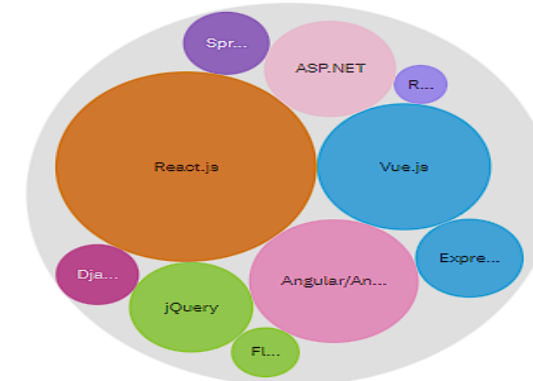
Top 10 databases desired to work with next year



Platforms desired next year

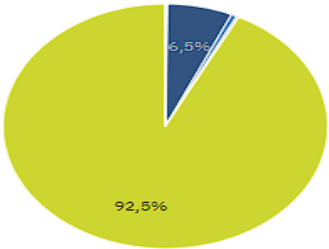
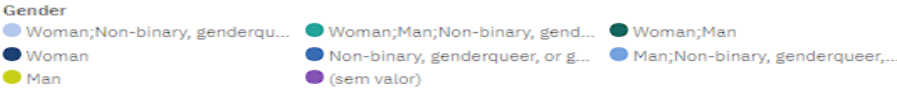


Top 10 Webframes desired next year

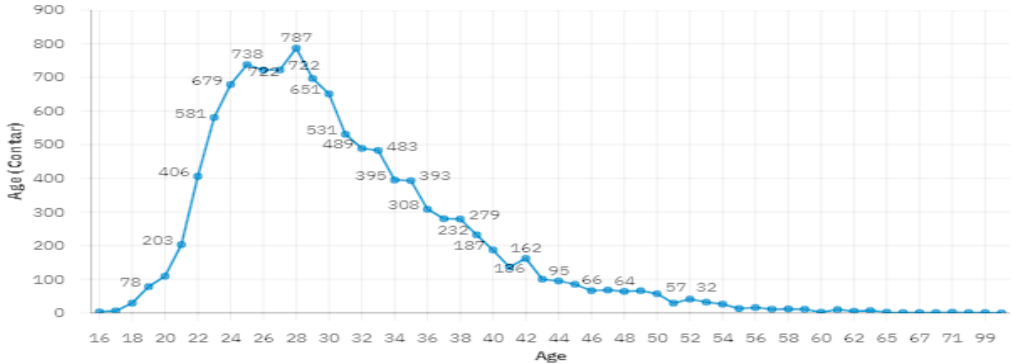


# DASHBOARD TAB 3

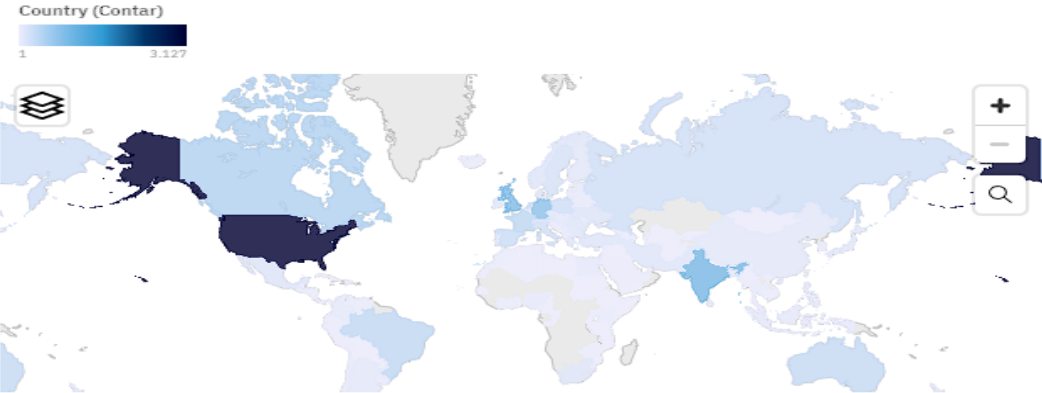
Respondents classified by Gender



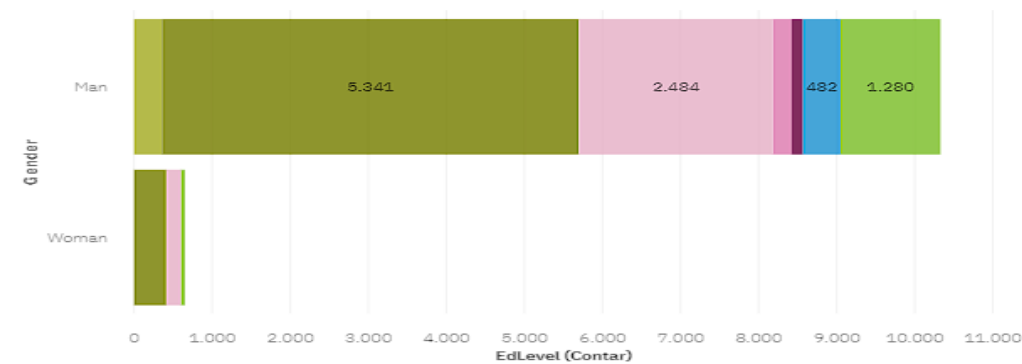
Respondents Count by Age



Respondents Count for Countries



Respondent Count by Gender, classified by Formal Education Level



# DISCUSSION

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- While now the diversity is growing in the IT fields, it stills shows the predominance of man 91.9% from rich countries, and white color as being the majority with asians following. And 92.7% of the people surveyed are straight.

# OVERALL FINDINGS & IMPLICATIONS

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## Findings

JavaScript and HTML/CSS are the most used programming languages, with Python gaining popularity for the next year. MySQL, SQL Server, and PostgreSQL are the top databases, with PostgreSQL, MongoDB, and Redis emerging as future contenders. Windows, Linux, and AWS are the current dominant platforms, but Linux, Docker, and AWS are expected to rise. jQuery, Angular, and React are widely used web frameworks, with React, Vue, and Angular gaining traction.

## Implications

Developers should focus on strengthening their skills in JavaScript, HTML/CSS, and Python to stay competitive. Organizations should consider adopting PostgreSQL, MongoDB, and Redis for future growth. Proficiency in Linux, Docker, and AWS is crucial for modern software development. Keeping up with React, Vue, and Angular is vital for creating innovative web applications.



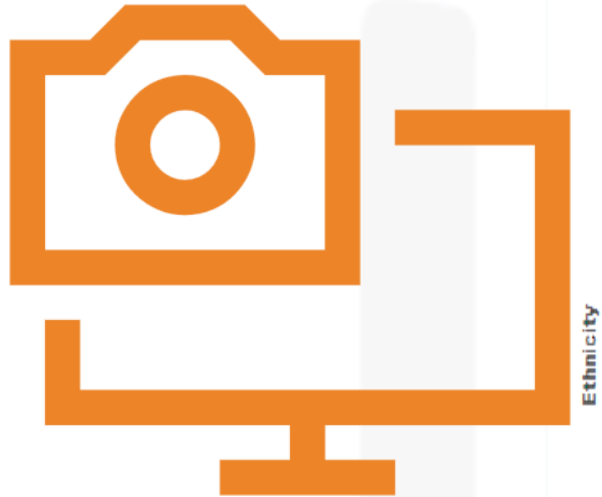
# CONCLUSION

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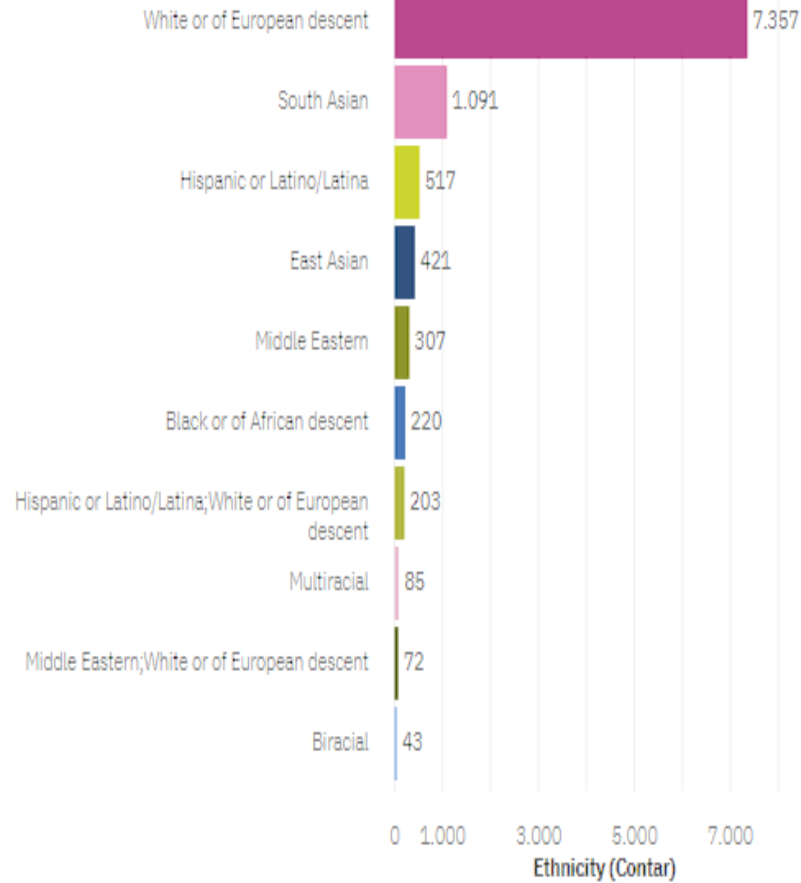


- In conclusion, this analysis provides insights into the current state and future trends of programming languages, databases, platforms, and web frameworks. The results highlight the prominence of JavaScript, HTML/CSS, and Python, with JavaScript and HTML/CSS maintaining their dominance and Python showing promising growth. It is important for developers to focus on these key languages and stay updated with emerging trends. By leveraging these findings, professionals can enhance their skills and grow in the software environment.

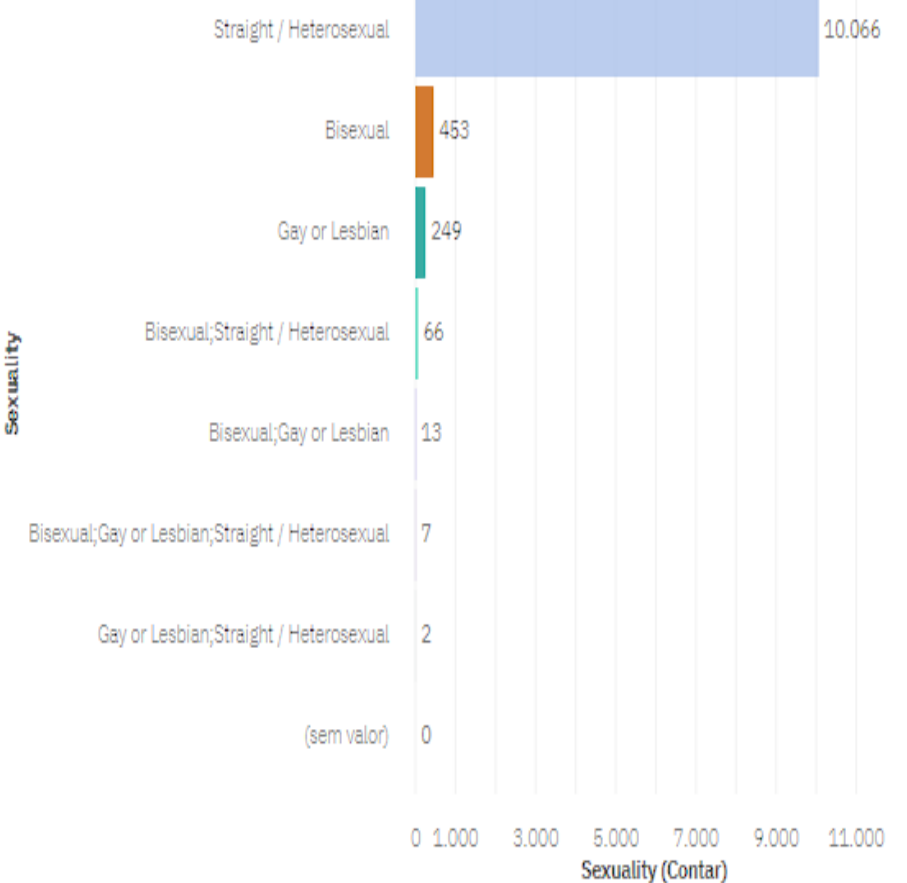
# APPENDIX



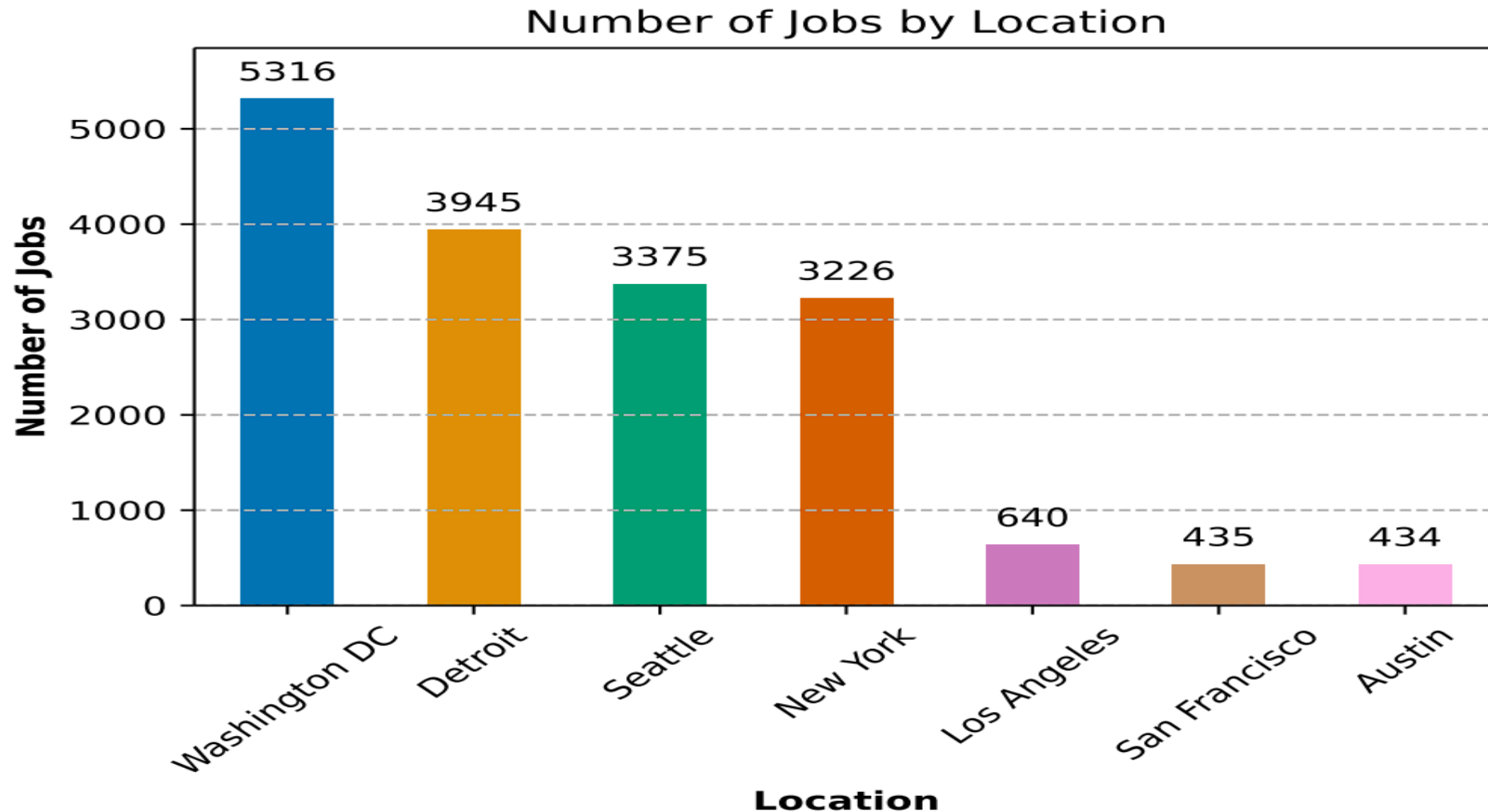
**Ethnicity**



**Sexuality**



# JOB POSTINGS



# POPULAR LANGUAGES

