



# Know The Appropriate Skills For You: IT Professionals' Use Of Technology

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# OUTLINE

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- Results
  - Visualization – Charts
  - Dashboard
- Discussion
  - Findings & Implications
- Conclusion
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# EXECUTIVE SUMMARY

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- **Problem statement:** According to *Glassdoor*, on average, each corporate job offer attracts 250 resumes. Of those candidates, 4 to 6 will get called for an interview, and only one will get the job. Therefore to help job seekers, especially in the information technology field, the present study focused on providing information on relevant technological skills required to land a job and thrive in the field. This was achieved by researching and evaluating the technology trends used by current IT professionals.
- **Proposed solutions:** the findings of the study provided the following information.
  - (a). Top 5 popular programming language at present and in the future.
  - (b). Top 5 popular databases at present and in the future.
  - (c). Top 5 popular platforms at present and in the future.
  - (d). Top 5 popular webframes at present and in the future.
- **Value:** The findings provided required information on the relevant technology skillset required of anyone aspiring to join the IT field in order to land their dream job and thrive within the field.
- **Final thoughts and next step:** the field of information technology is technology-driven. To remain relevant within or gain entrance into the fields, one must master and work with multiple technologies relevant to the field.

# INTRODUCTION

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- The field of information technology is becoming increasingly popular with many people seeking to find a career within the field.
- For proper guidance, there is a need to research and analyze the trend of technology usage of current IT professionals, including future trends, in order to provide new entrants with relevant technological skills required to thrive in the field.
- Therefore, the target audience of this report includes new entrants and those who wish to enter into the field of data analytics in the future.
- The purpose of this presentation is to assist the target audience in quickly grasping the trend of IT professionals' technology usage and to identify what they should learn further to improve their chances of finding jobs in this sector.

# METHODOLOGY

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- The data used for the research was collected through survey, API and web scraping.
- Survey: Two surveys tilted: (a) currently used technology, technology desired in the future, and (b) demographics, were collected from data professionals across the world.
- API: job posting data was gotten through github API.
- Web scraping: popular language and salary list of programmers were obtained through by scraping relevant website.
- Sources of Data:
  - <https://stackoverflow.blog/2019/04/09/the-2019-stack-overflow-developer-survey-results-are-in/>
  - [jobs.github.com/positions.json](https://jobs.github.com/positions.json)
  - Salary survey results of programming languages (appdomain.cloud)

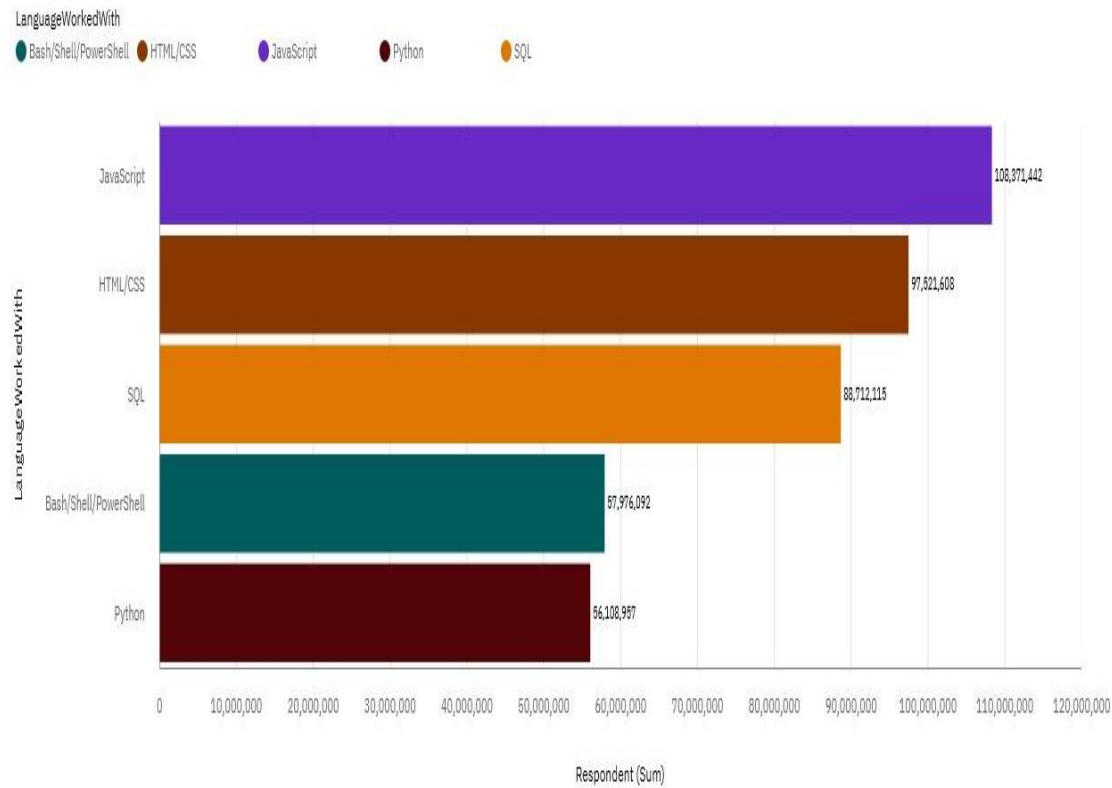
# RESULTS

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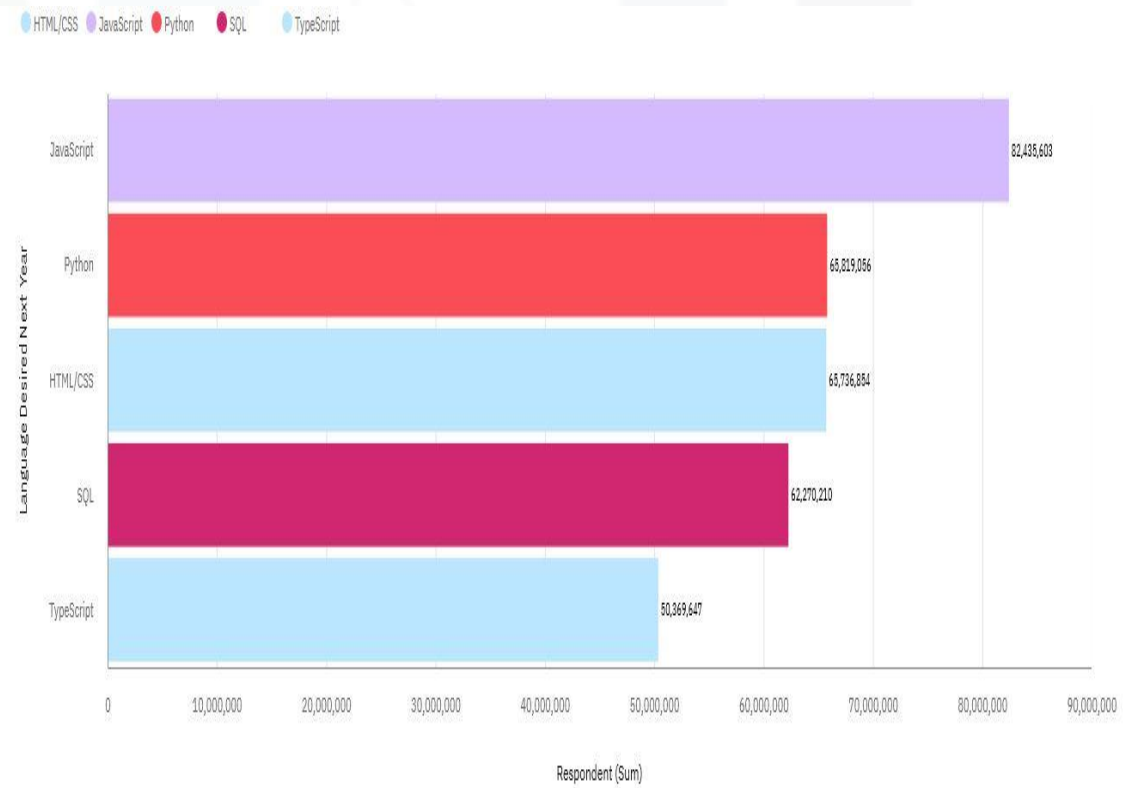


# PROGRAMMING LANGUAGE TRENDS

## Current Year Top 5



## Next Year Top 5



# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- JavaScript, HTML/CSS and SQL are three most popular language among IT professionals at present.
- In the future, the trend did not change much. However, Python appear to become more prominent in the future.

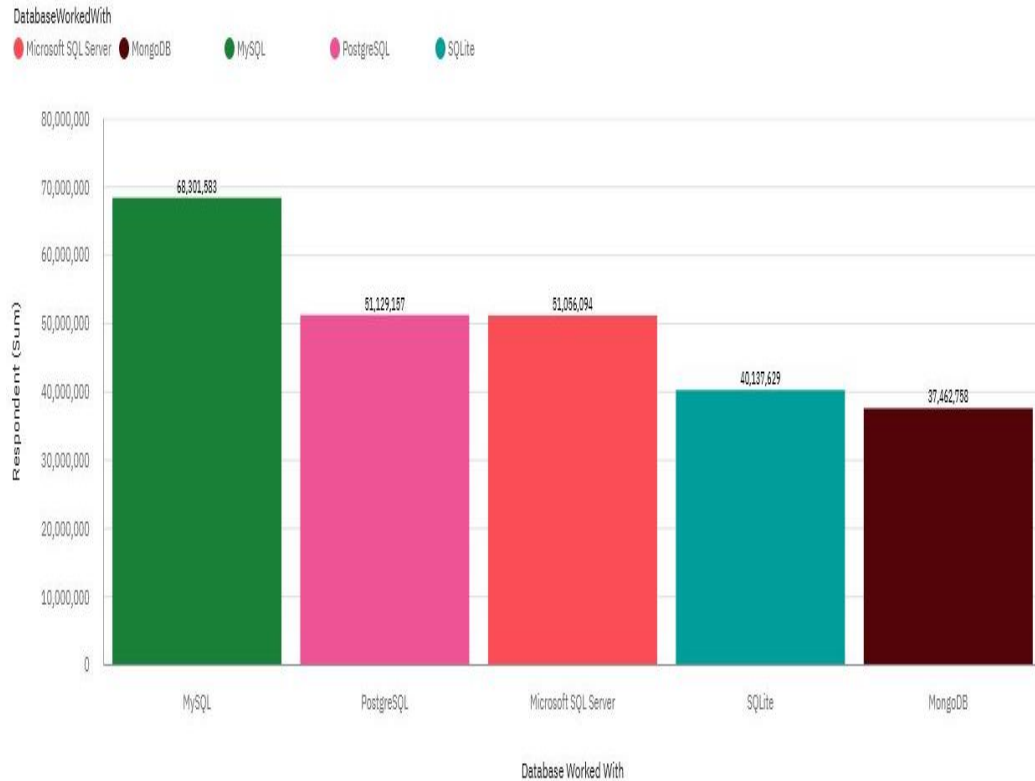
## Implications

- New entrants and job seekers in the field of information technology should possess skills in SQL, JavaScript and HTML/CSS.
- Since Python is likely to become popular among IT professionals in the future, it is necessary that IT professionals should acquire some python skills to improve their competitiveness and relevance.

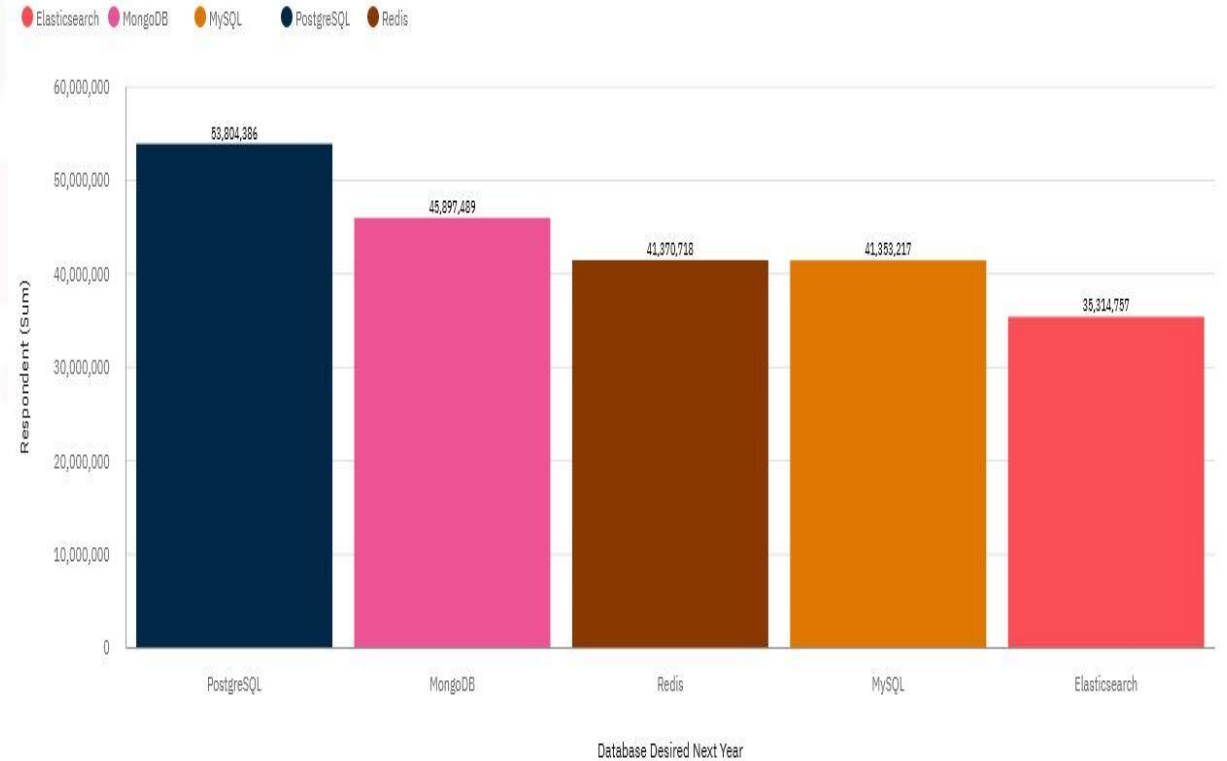


# DATABASE TRENDS

## Current Year Top 5



## Next Year Top 5



# DATABASE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- At present the most popular database among IT professionals is MySQL
- PostgreSQL and Microsoft SQL server are also popular
- In the future, there was a significant shift of database preference with PostgreSQL, MongoDB and Redis appearing to be very popular.

## Implications

- Anyone wishing to join IT field must be conversant with MySQL database.
- It is also important have skills in PostgreSQL and Microsoft SQL server to boost one's chances and confidence.
- To remain relevant and competitive in the field, especially in the future, the Knowledge of MongoDB and Redis may be relevant.

# PLATFORMS TRENDS

## Current Year

Prominent Platforms Data Professionals Worked With



## Next Year

Colored Hierarchy of Platforms Respondents Desire Next Year



# PLATFORM TRENDS - FINDINGS & IMPLICATIONS

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## Findings

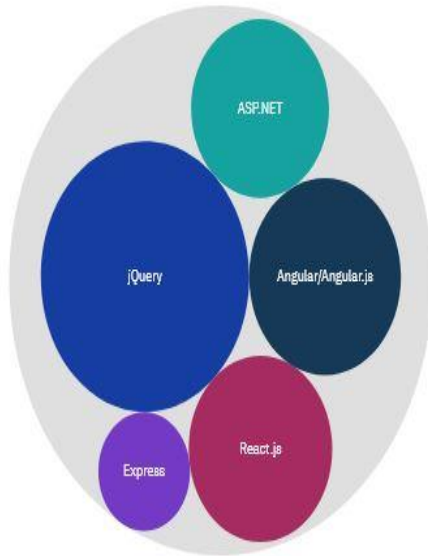
- Windows is the most prominent platform among IT professionals
- Other prominent platforms include Linux, Docker and AWS.
- In the future, the trend does not appear to change much. However, Linux may become the most popular platform among data professionals.

## Implications

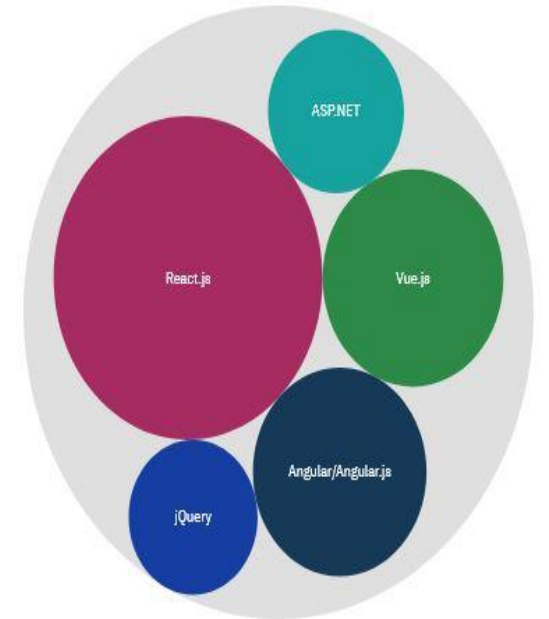
- Individuals seeking to join the IT field must be conversant with working in a windows environment.
- Such individuals may also improve their employment chances if they are conversant with Linux, Docker and AWS platforms.
- New entrants into IT field may need to pay more attention to Linux platforms as they may become more popular in the future.

# WEB FRAMES TRENDS

## Current Year Top 5



## Next Year Top 5



# WEB FRAME TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- JQuery is the most popular web frame among IT professionals presently.
- Other popular web frames include Angular/Angular.js, ASP.NET and React.js.
- In the future, React.js may become the most popular web frame.

## Implications

- It is necessary to have knowledge of JQuery for fresh job seekers within the IT field.
- Individuals may boost their chances of getting a job by having skills in one of Angular/Angular.js, ASP.NET and React.js.
- As React.js may likely gain prominence in the future, one may consider having some skills in it.

# DASHBOARD

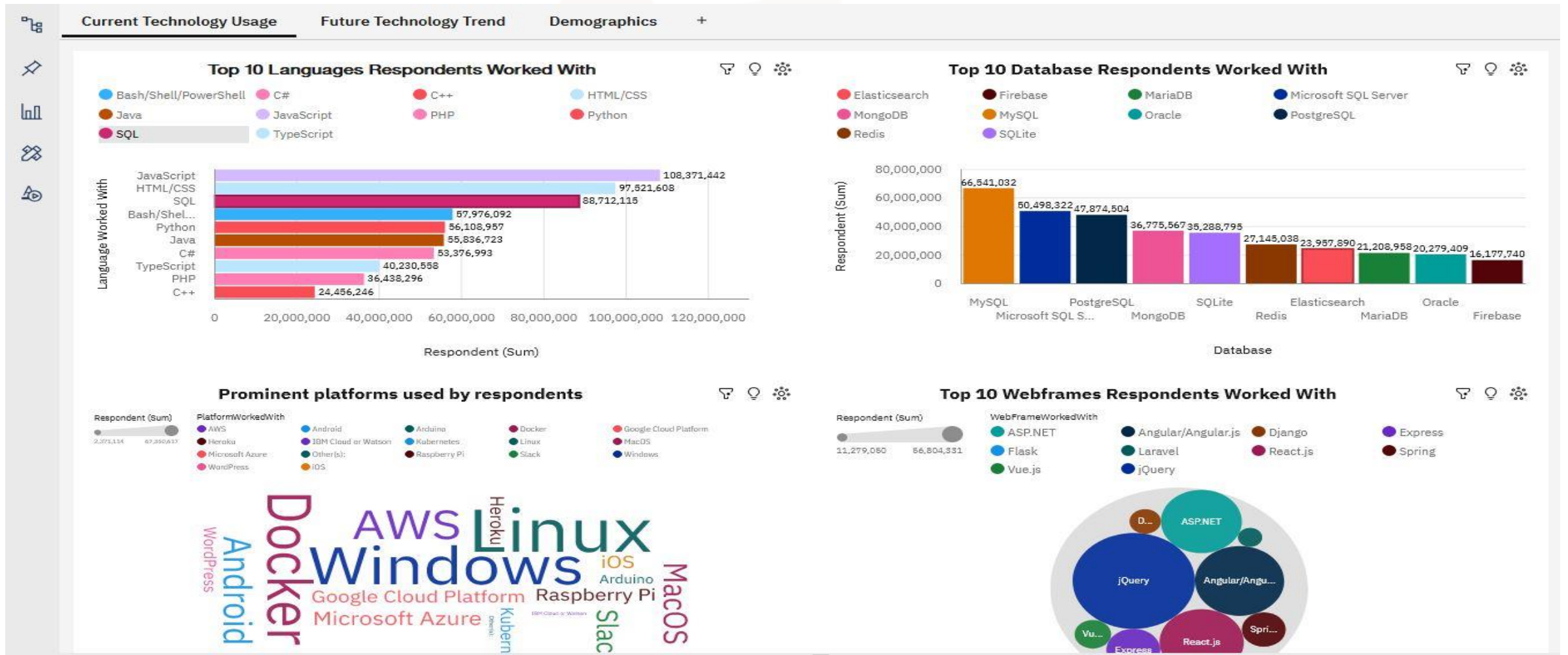
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[click to download Dashboards](#)

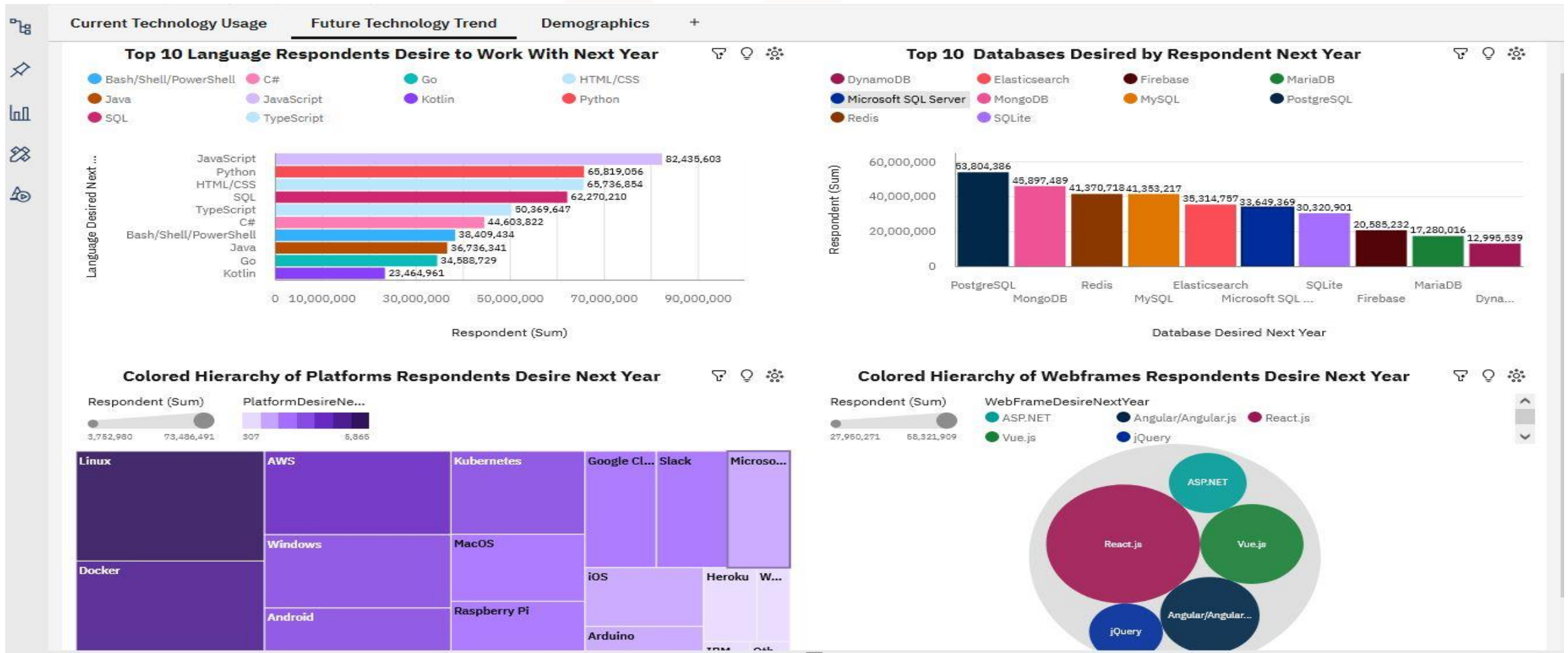


# DASHBOARD TAB 1

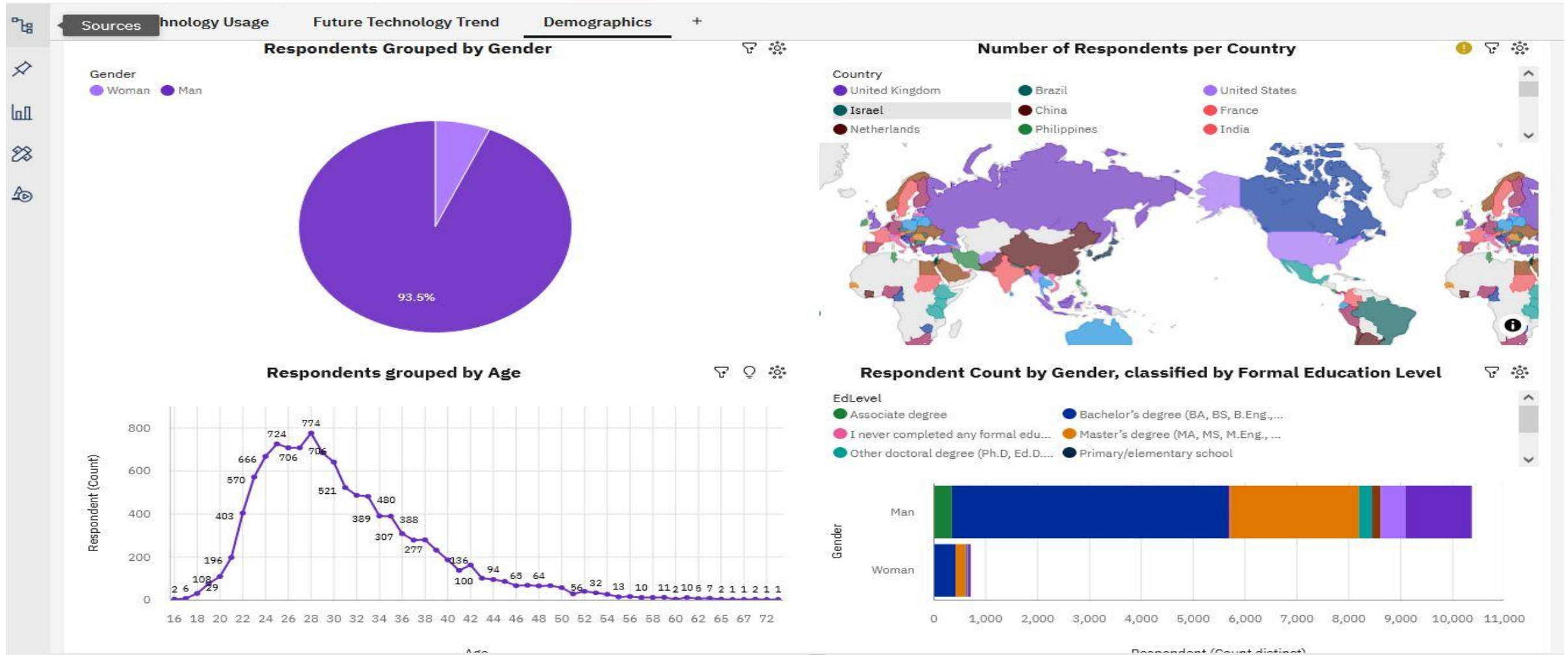




# DASHBOARD TAB 2



# DASHBOARD TAB 3



# DISCUSSION

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# OVERALL FINDINGS & IMPLICATIONS

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## Findings

- At present and in future, popular programming languages are JavaScript, HTML/CSS, SQL and Python.
- At present and in future, popular databases include, MySQL, Microsoft SQL server, PostgreSql and MongoDB.
- At present and in future, popular platforms include, Windows, Linux, AWS and Docker.
- At present and in future, popular web frames include, JQuery, Angular/Angular.js, ASP.NET, React.js.

## Implications

- To become a successful IT professional, one must expand their skillset to include present and future programming languages, databases, platforms and web frames.

# CONCLUSION

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- The field of information technology has continued to become popular since many industries tend to rely more on technology-driven processes.
- However, to successfully gain a job in the IT field, one is expected to possess some relevant technological skillsets.
- Recommended skillset:

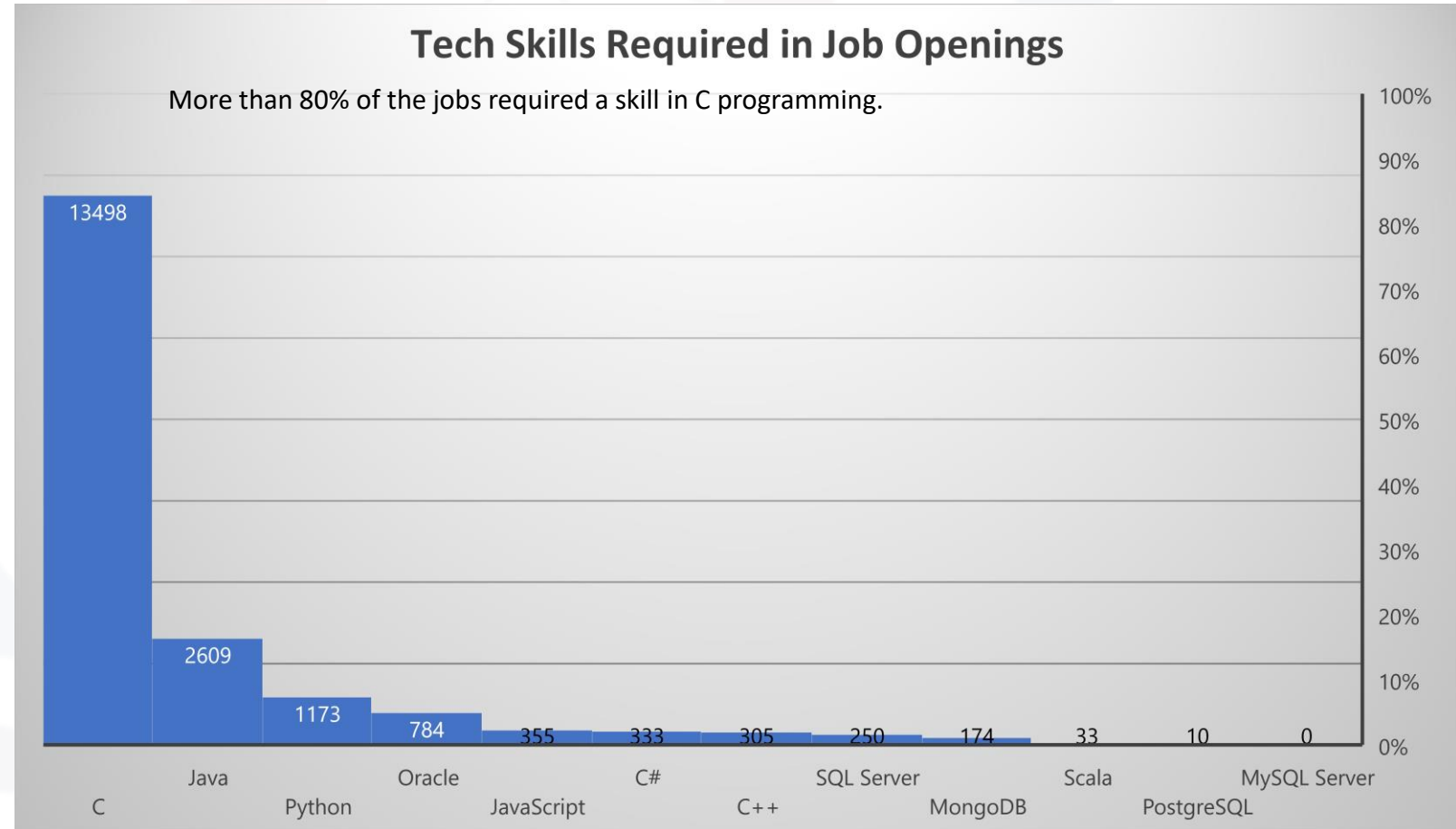
Languages: JavaScript, HTML/CSS, SQL

Database: MySQL, Microsoft SQL server, PostgreSQL.

Platforms: Windows, Linux, AWS, Docker.

Web Frame: JQuery, Angular/Angular.js, ASP.NET, React.js

# APPENDIX



# JOB POSTINGS

Number of Jobs Available in Different Locations



# POPULAR LANGUAGES

