



# Current State of Technology

B.D.

April 21, 2-24

# OUTLINE

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

# EXECUTIVE SUMMARY

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- Developers use a wide variety of tools.
  - Languages
  - Databases
  - Platforms
  - Web Frames
- Developers are interested learning new skills.
  - Languages
  - Databases
  - Platforms
  - Web Frames
- Most developers are mens and are various ages and come from a wide variety of countries.

# INTRODUCTION

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- Because the technology landscape is always changing, it is important to be aware of where developers are and how they want to grow.

# METHODOLOGY

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- Analyze current technology usage.
- Analyze skills of interest and opportunities for growth.
- Summarize demographic data.

# RESULTS

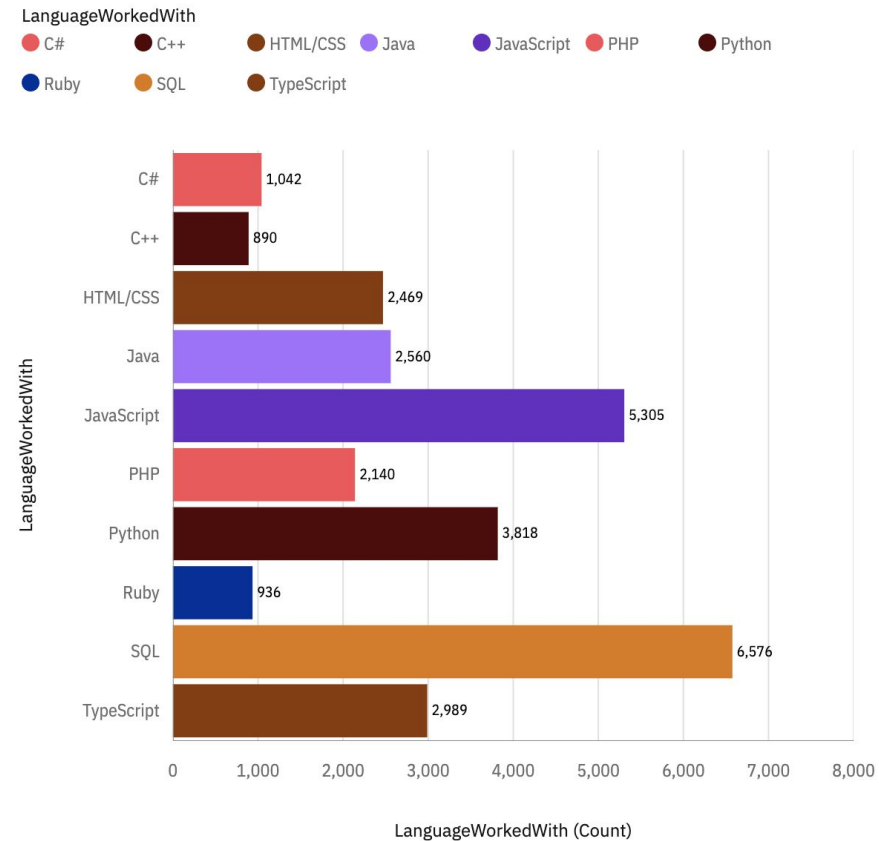
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# PROGRAMMING LANGUAGE TRENDS

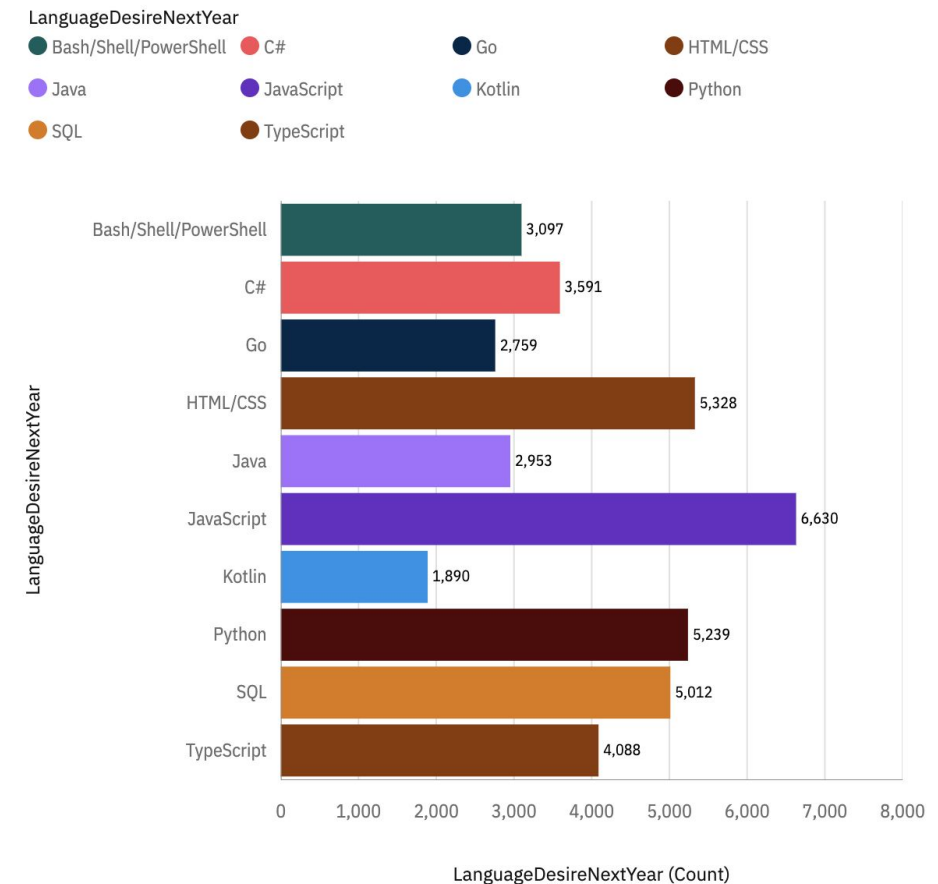
## Current Year

Top 10 Languages Worked With



## Next Year

Languages Desired NextYear



# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- Javascript is a high priority language.
- SQL is worked with most often and is also a high priority language.
- C++ is not worked with very much and not of interest.

## Implications

- Investing in development of SQL and Javascript skills is a priority.
- The language landscape is changing with C++ falling out of favor.

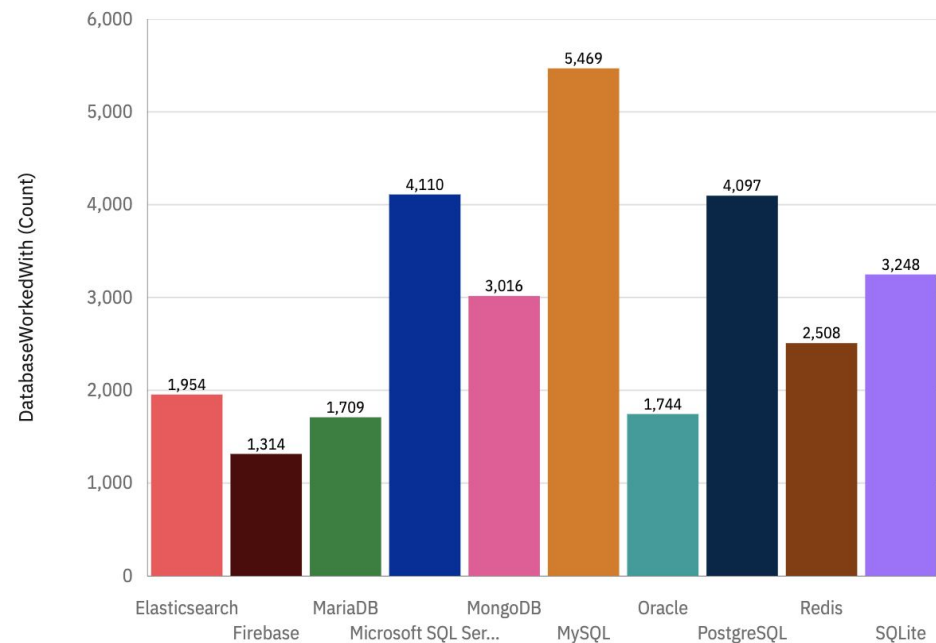


# DATABASE TRENDS

## Current Year

Top 10 Database Worked With

DatabaseWorkedWith

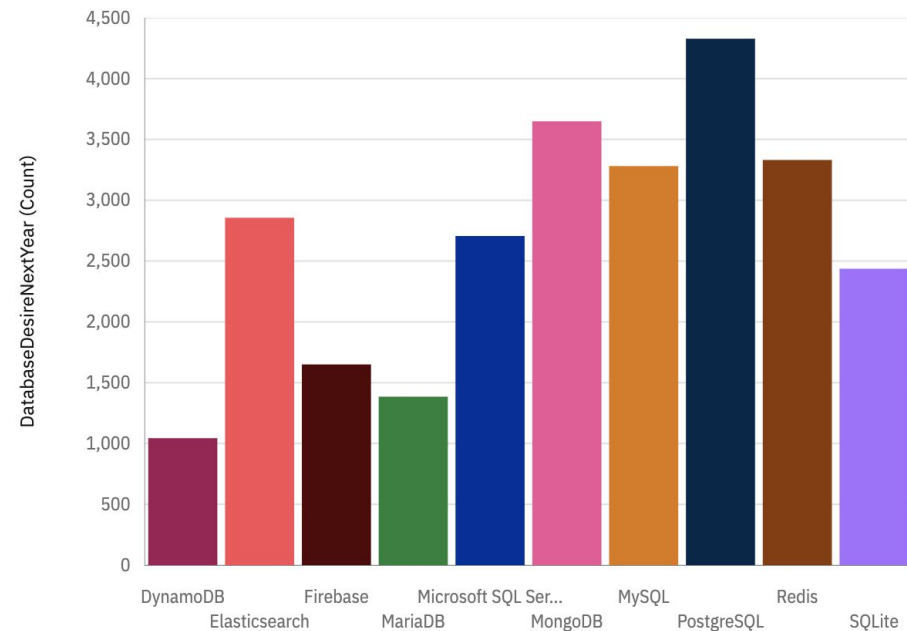


DatabaseWorkedWith

## Next Year

Databases Desired Next Year

DatabaseDesireNextYear



DatabaseDesireNextYear

# DATABASE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- SQL is worked with most often.
- Microsoft SQL Server, PostgreSQL, and SQLite are also worked with frequently.

## Implications

- While developed SQL proficiency is still a priority, there are other databases such as MongoDC and Redis that are gaining traction.

# DASHBOARD

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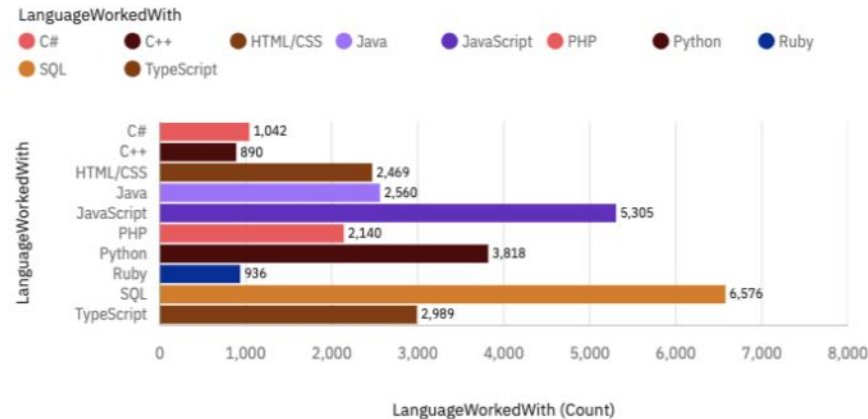


Dashboard:  
[https://github.com/yenttirb/Data-Analysis/blob/main/FINAL%20DATA\\_%20Project.pdf](https://github.com/yenttirb/Data-Analysis/blob/main/FINAL%20DATA_%20Project.pdf)

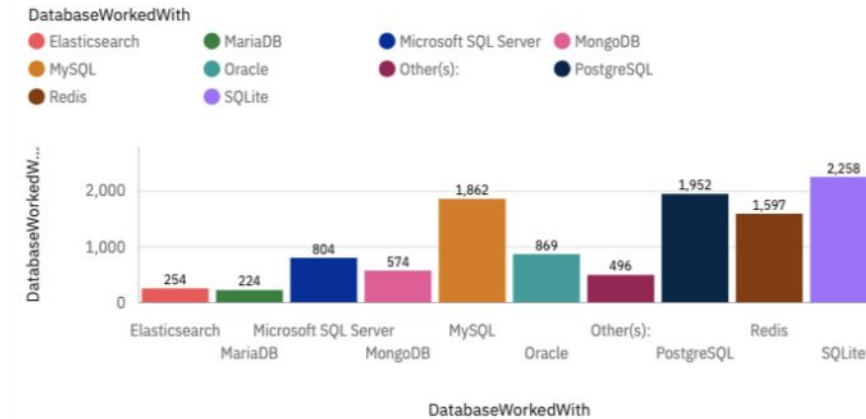
# Current Technology Usage

## Current Technology Usage

### Top 10 Languages Worked With



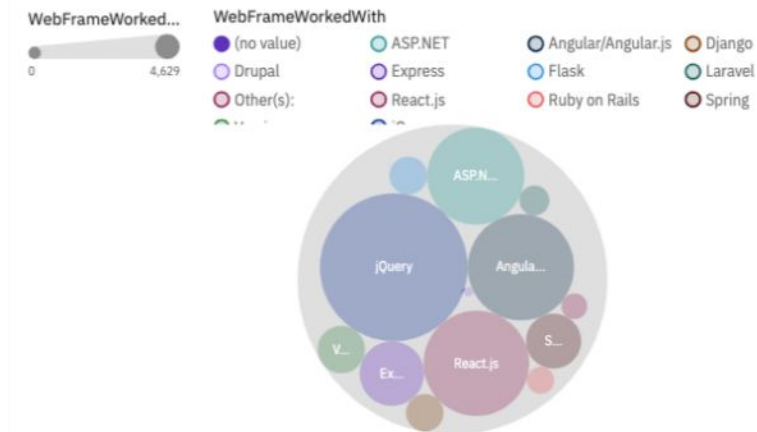
### Top 10 Database Worked With



### Platforms Worked With



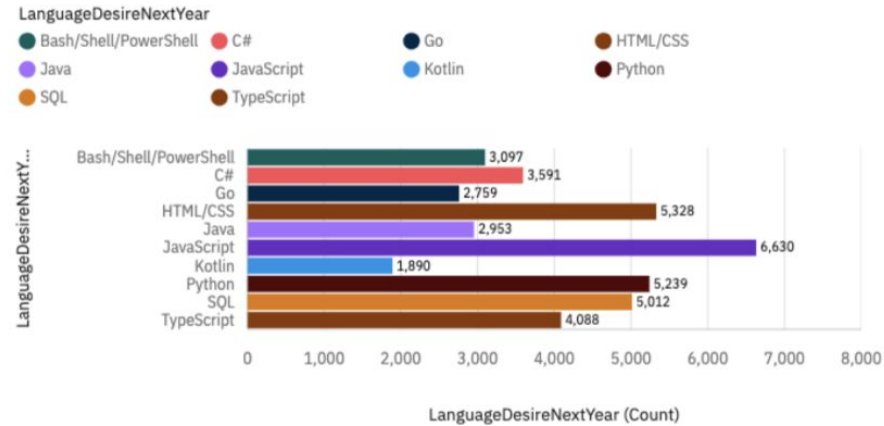
### Web Frame Worked With



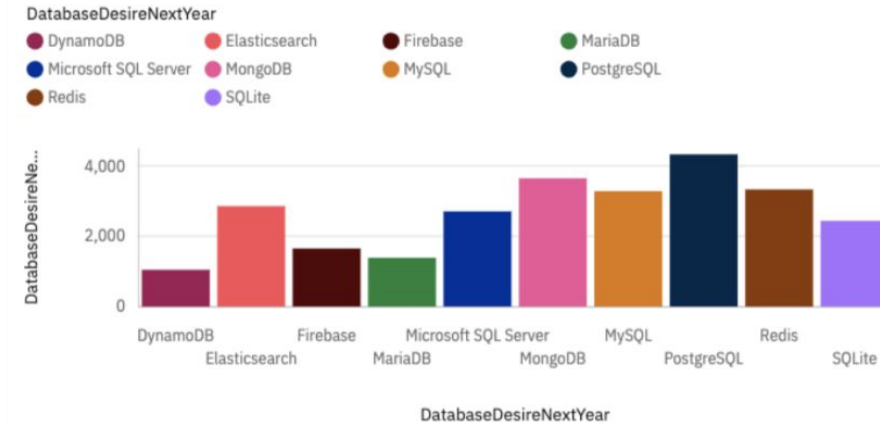
# Future Desire

Scr

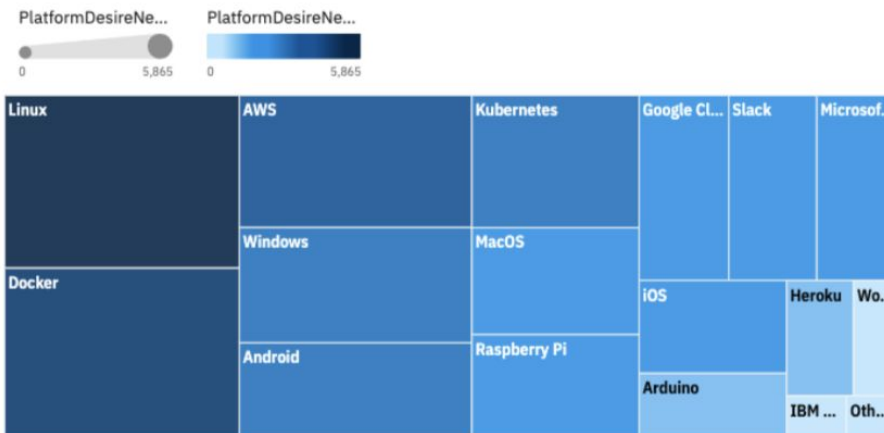
Languages Desired Next Year



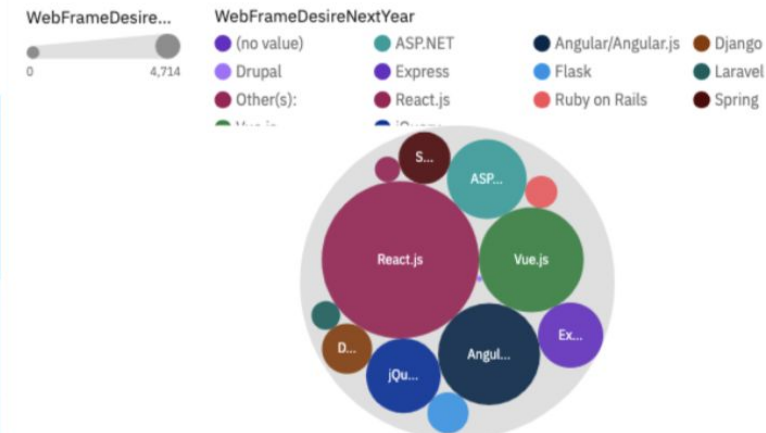
Databases Desired Next Year



Platform Desire Next Year

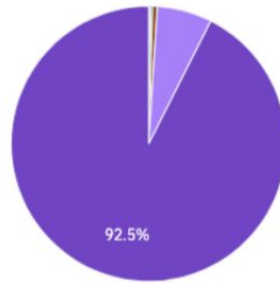


Web Frame Desired Next Year



# Demographic Information

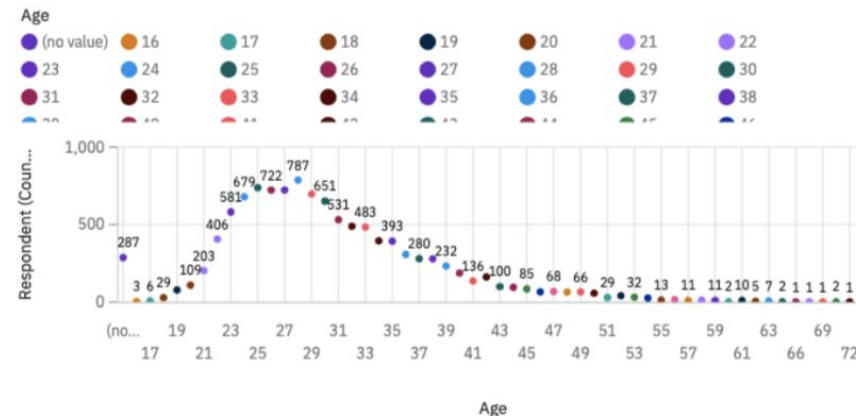
Respondent by Gender



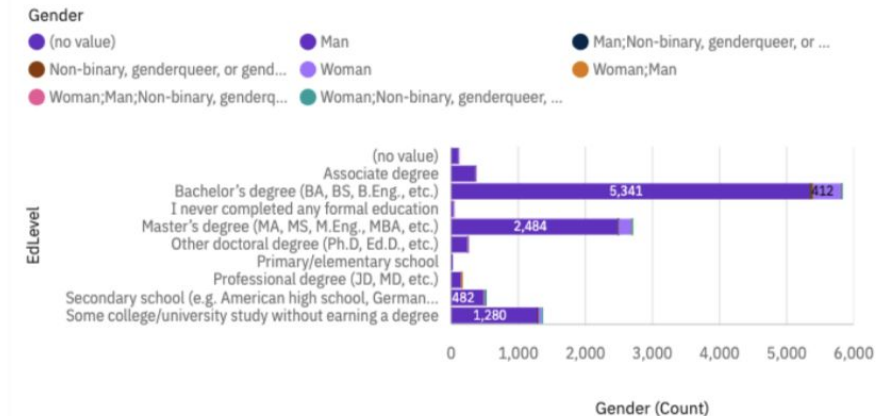
Respondent Count by Country



Respondent Count by Age



Formal Education Level by Gender



# OVERALL FINDINGS & IMPLICATIONS

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## Findings

- Javascript and SQL worked with most often and are also high priority languages.
- SQL, Microsoft SQL Server, PostgreSQL, and SQLite are also worked with frequently.
- The majority of developers are male.

## Implications

- Investing in development of SQL and Javascript skills is a priority.
- While developed SQL proficiency is still a priority, there are other databases such as MongoDB and Redis that are gaining traction.
- Drawing more females into the field should be a priority.



# CONCLUSION

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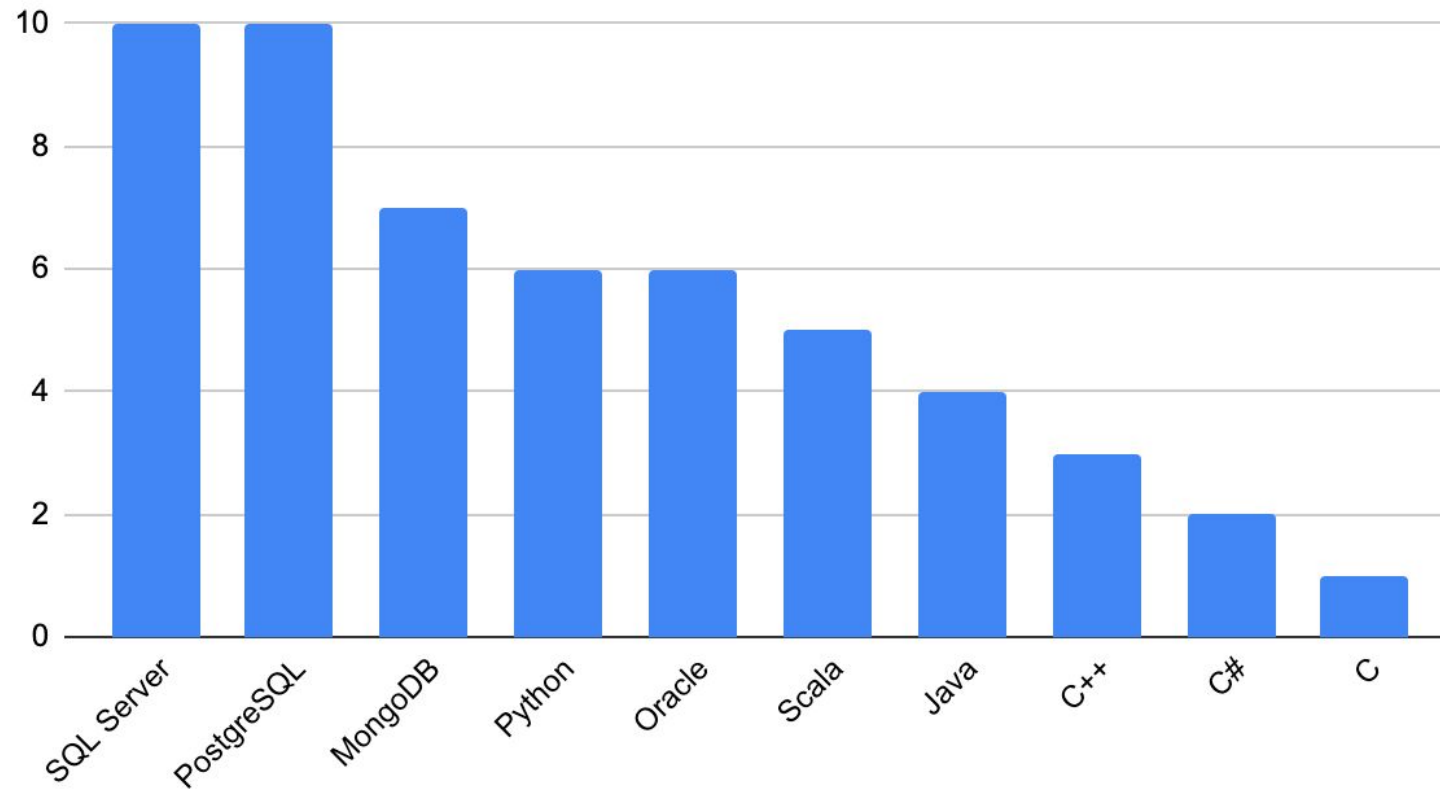


- Prioritizing skill development in tools that are currently widely used or will be in the future is important.
- Bringing more females to the field will increase diversity and strengthen the field.



# JOB POSTINGS

Job Listings by Language



# POPULAR LANGUAGES

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