STACK OVERFLOW SURVEY

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OUTLINE

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

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EXECUTIVE SUMMARY

- Objective of data contextualization and analysis.

- Explanation of the methodology.

- Data collection process.

- Examination and interpretation of data.

- Creation of data visualizations.

- Presentation of results using graphs and identifying trends.

- Discussion on the findings and their broader implications based on the presented results.

- Concluding remarks on the conducted research.

INTRODUCTION

- The results may not evenly represent the entire developer community.

- Participation includes nearly 90,000 developers.

- Highlights trends to forecast future directions in the developer community.

- Provides a global profile of developers.

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METHODOLOGY

- Data Collection

- Data Exploring

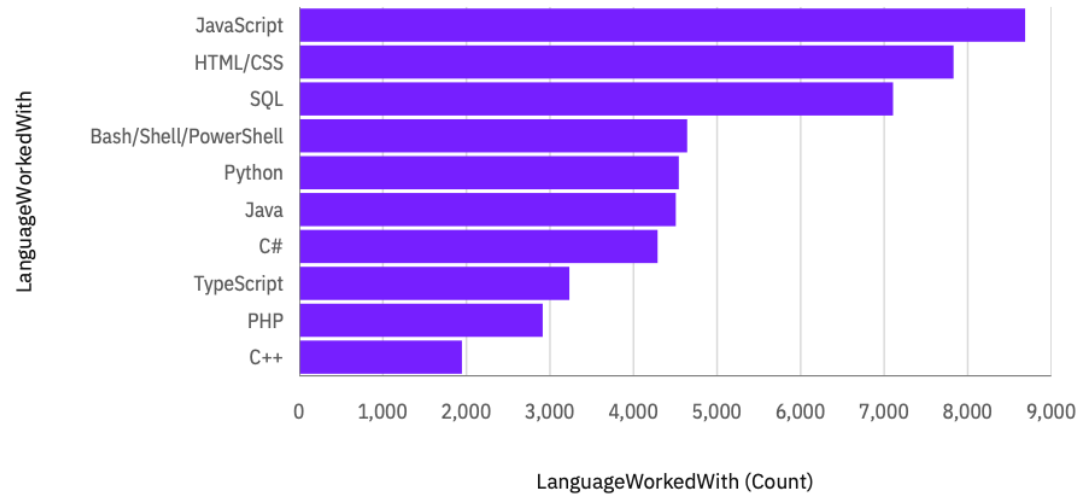- Data Wrangling

- Data Visualization
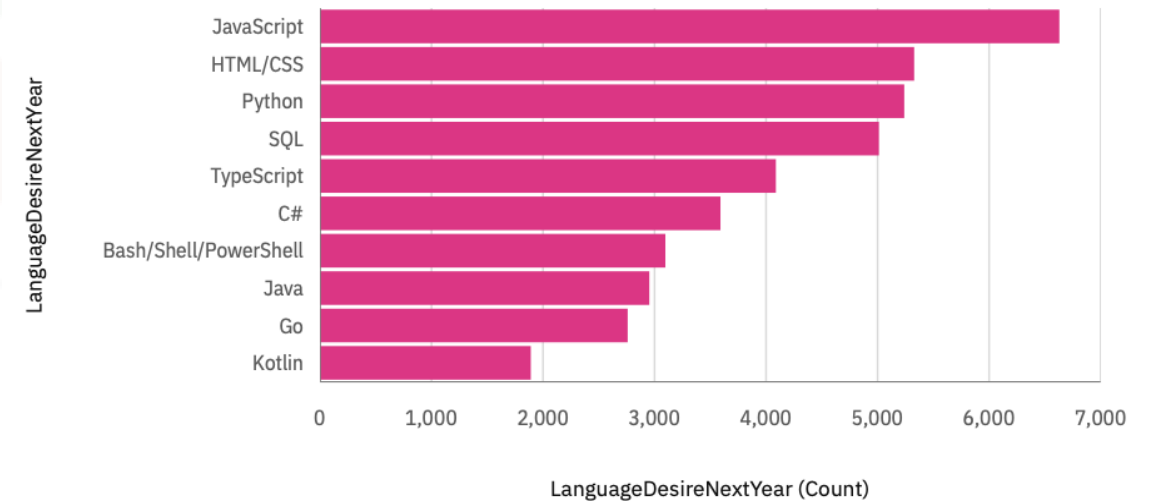
- Presentation

RESULTS

PROGRAMMING LANGUAGE TRENDS

Current Year

Next Year

Top 10 Languages Used

Top 10 Languages Desired Next Year

PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Java, HTML, and SQL are the top 3 for now and the future

- Next year, both Python and Typescript will be more desired
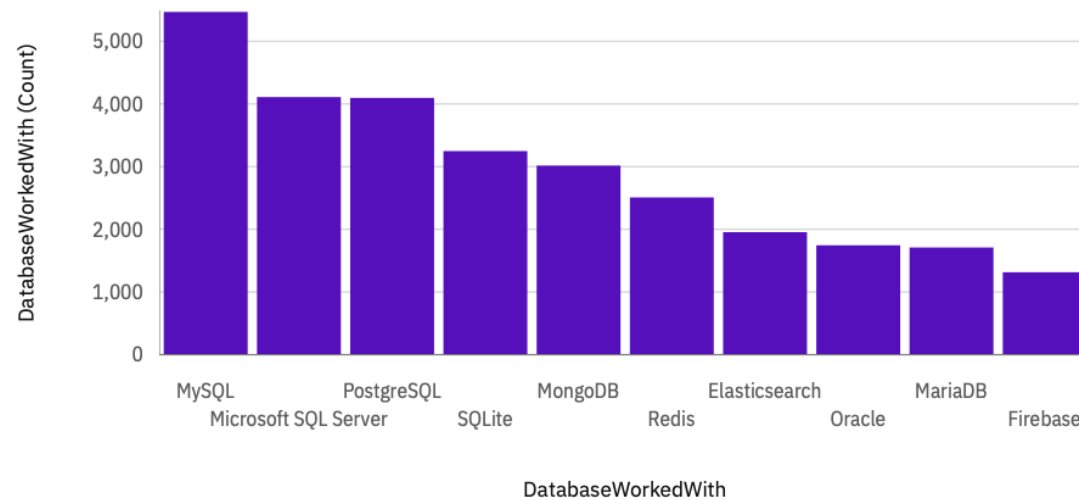
- PowerShell becomes less utilized next year

Implications

- Web development is very crucial to businesses

- Python is the fastest growing language, due to its simplicity

- There are better options than to use PowerShell in the future

DATABASE TRENDS

Current Year

Top 10 Databases Worked With

Next Year

Top 10 Databases Desired Next Year
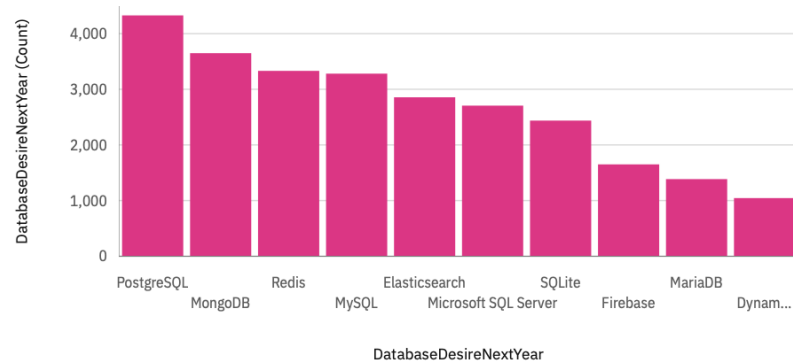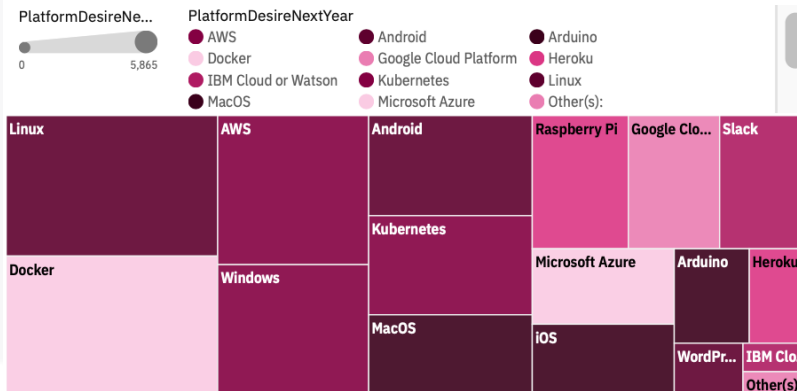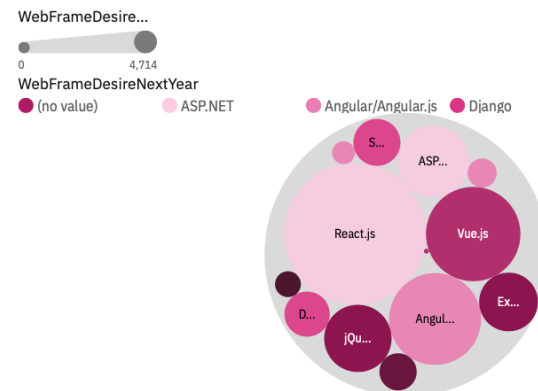
DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL the most widely used
- PostgreSQL and MongoDB are gaining interest next year
- Microsoft SQL Server and SQLite are no longer desired

Implications

- Open source is still very desirable for companies
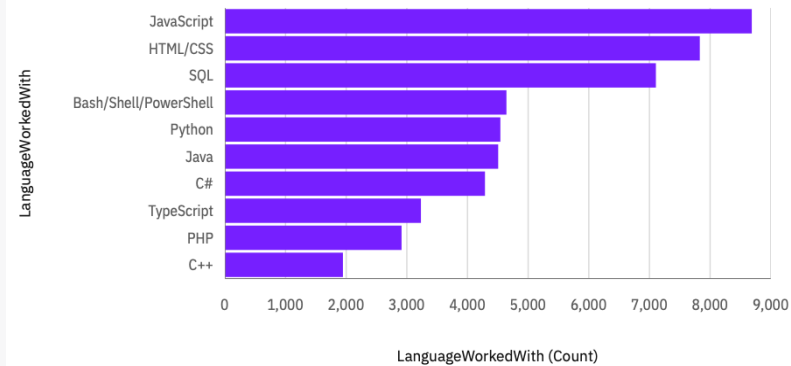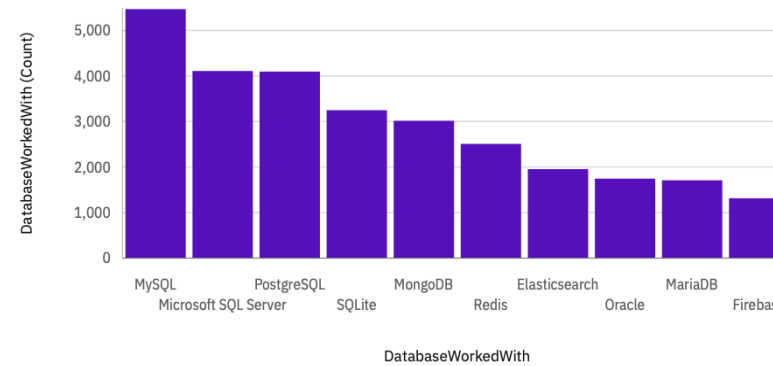- PostgreSQL and MongoDB
  - Establishing good foothold

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DASHBOARD

[Link to GitHub](#)

CURRENT TECHNOLOGY USAGE

FUTURE TECHNOLOGY TREND

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DEMOGRAPHICS
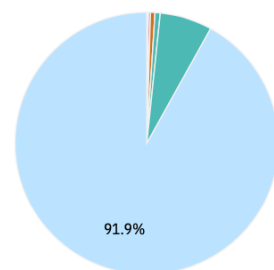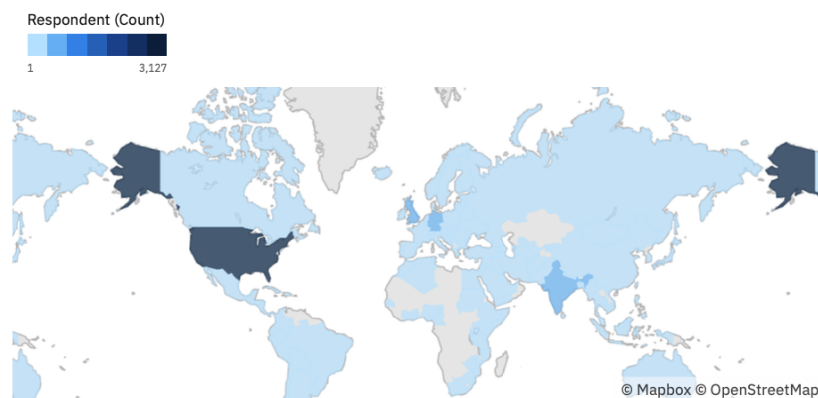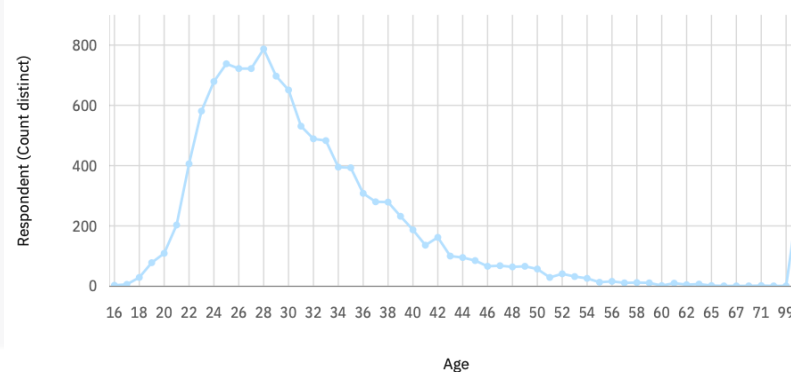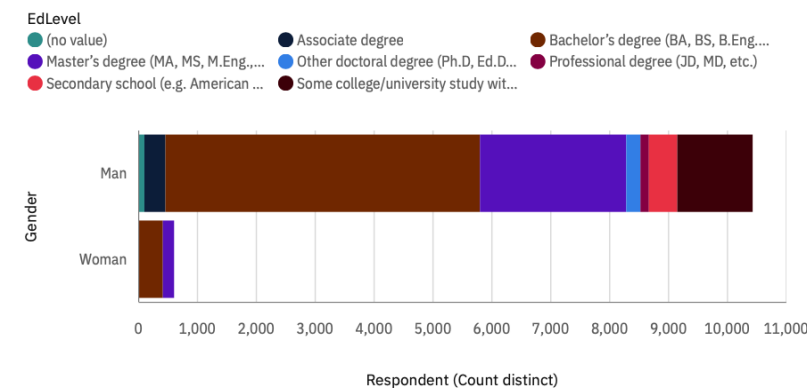
DISCUSSION

OVERALL FINDINGS & IMPLICATIONS

Findings

- An overwhelming amount of developers are young males

- Cloud platforms continue to grow rapidly

- Developers mostly located in select countries

Implications

- Employers must not overlook female developers

- Companies must be agile in implementing cloud technology

- Learning technology must be promoted in more countries

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CONCLUSION

- Greater integration and reliance on AI-driven development tools and automated coding.

- Extensive integration of IoT in everyday life, requiring specialized programming skills.

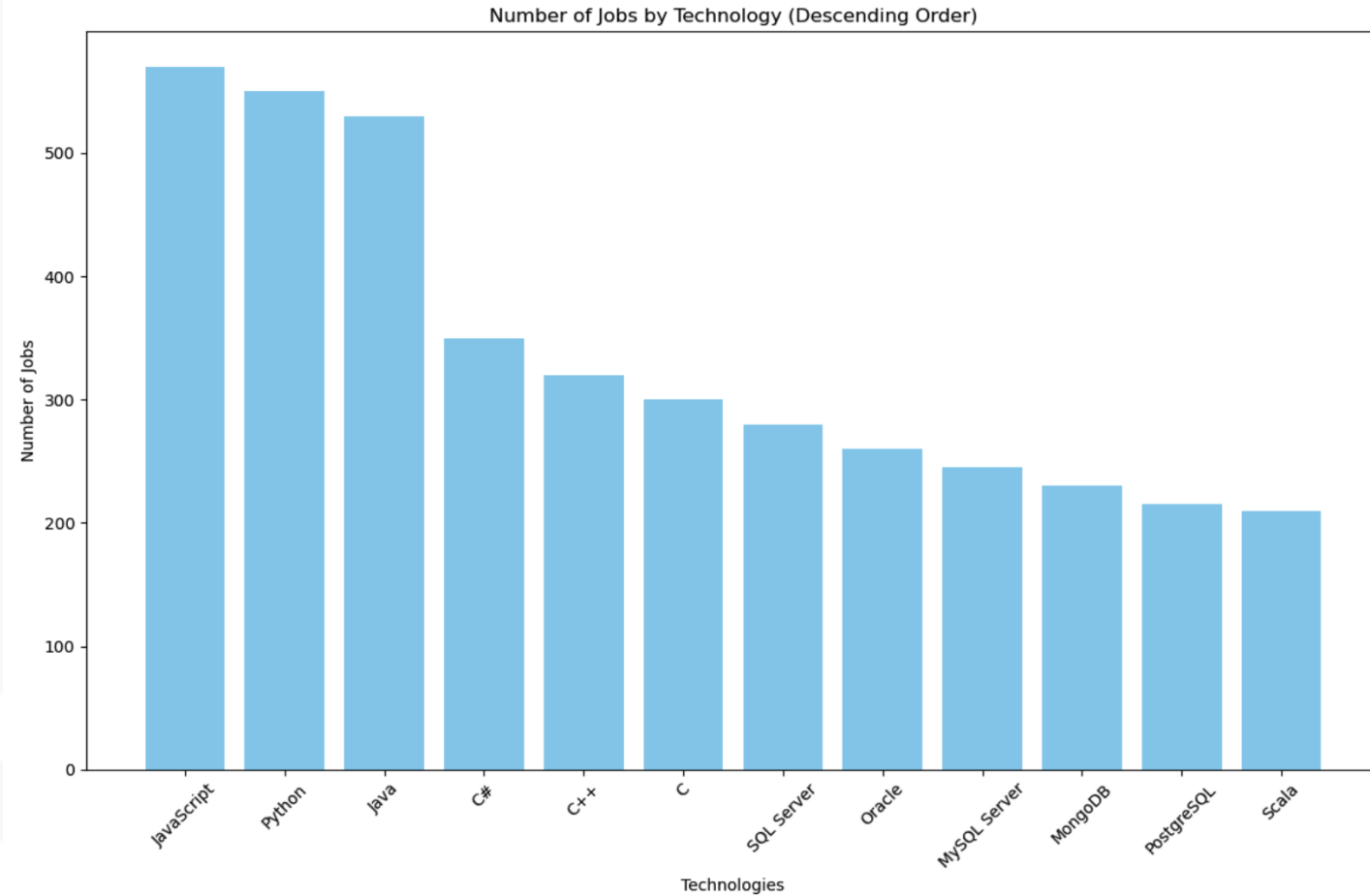- Need for the programming job market to be less niche

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APPENDIX

JOB POSTINGS

Number of Jobs by Technology (Descending Order)

POPULAR LANGUAGES

Average Salary by Programming Language (Descending Order)