



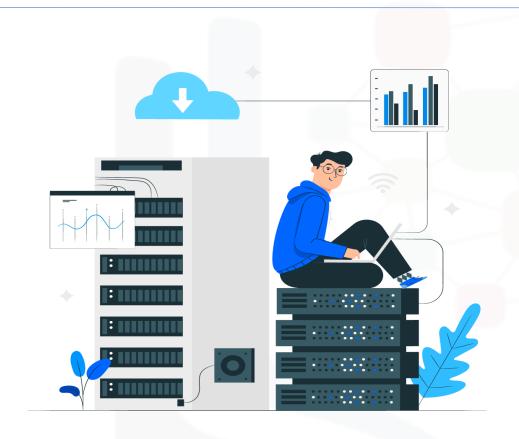
Data Analyst Capstone Project

Brayan H Ago 2023





OUTLINE



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EXECUTIVE SUMMARY



- Are you interested in pursuing a career in tech? If so, you're in luck! JavaScript, Python, HTML/CSS, SQL, and TypeScript are the most in-demand programming languages in the industry today.
- And when it comes to databases, PostgreSQL, MongoDB, Redis, MySQL, and ElasticSearch are the ones to know. But there's a catch - the IT industry has a persistent gender gap.
- Join us as we explore the challenges and opportunities for women in tech, and find out what you can do to help bridge the gapeTWORK



INTRODUCTION

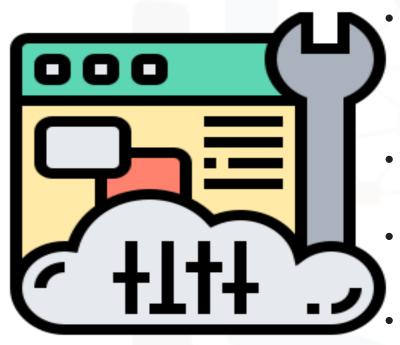


 Stack Overflow surveyed developers about technology trends in 2019. The results are useful for IT professionals and individuals in the IT field who want to stay up-to-date with the latest industry developments.

Target audience:

- -Software developers: The survey results can provide valuable insights for software developers.
- -IT managers: IT managers can use the survey results to inform their decision-making.
- -Tech entrepreneurs: Entrepreneurs who are interested in starting a tech-related business can benefit from the survey results.

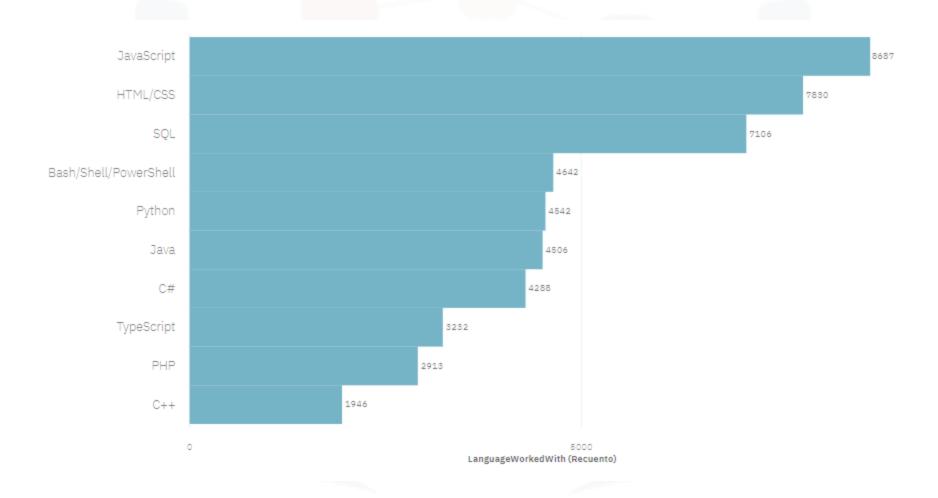
METHODOLOGY



Data Sources:

- Stack Overflow Survey 2019
- Github Job Posting
- Programming Language Annual Salary
- Data Exploration and Cleaning
 - Python
 - **Data Visualization**
 - IBM CognosAnalytics
 - Presentation

PROGRAMMING LANGUAGE TRENDS



PROGRAMMING LANGUAGE FINDINGS & IMPLICATIONS

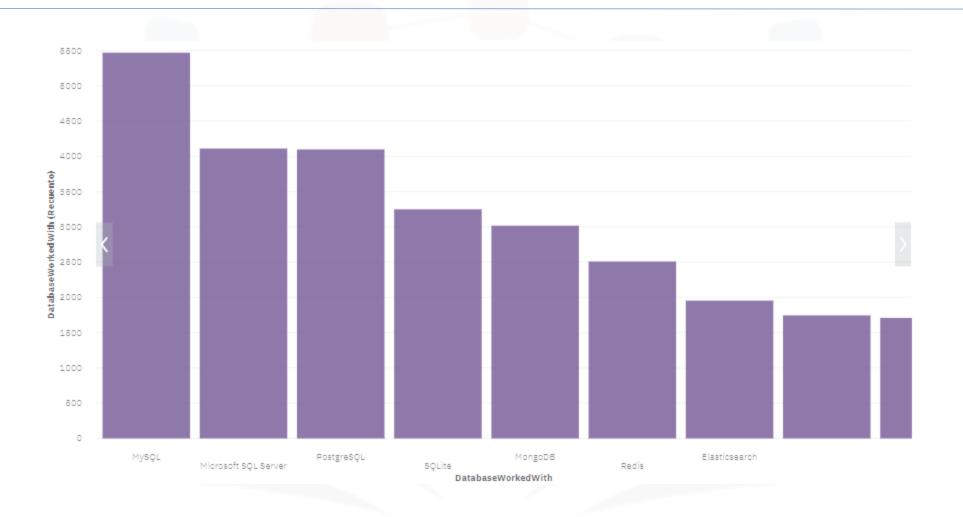
Findings

- JavaScript is the most demanded programming language, followed by Python, HTML/CSS, and SQL.
- TypeScript is gaining popularity and has surpassed Bash/Shell/PowerShell in desirability.

Implications

- The future of web development looks bright for Python, HTML/CSS, Java, and SQL.
- Web development jobs requiring Python, HTML/CSS, Java, and SQL are on the rise.
- The demand for web development skills remains strong.

DATABASE TRENDS



DATABASE FINDINGS & IMPLICATIONS

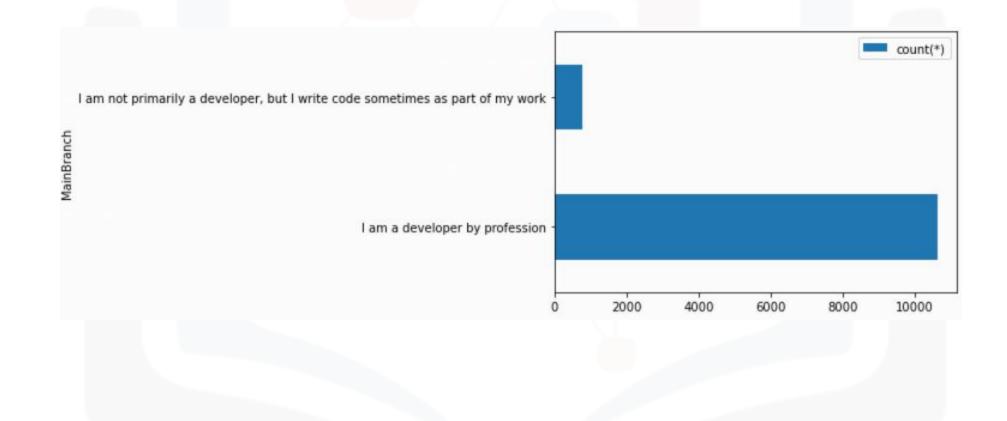
Findings

- PostgreSQL and MongoDB are seeing increased demand, while MySQL is experiencing a decline.
- Redis and ElasticSearch are becoming more popular, with a growing number of developers expressing interest in these technologies.
- The database landscape is shifting, with PostgreSQL and MongoDB gaining traction and MySQL losing ground.

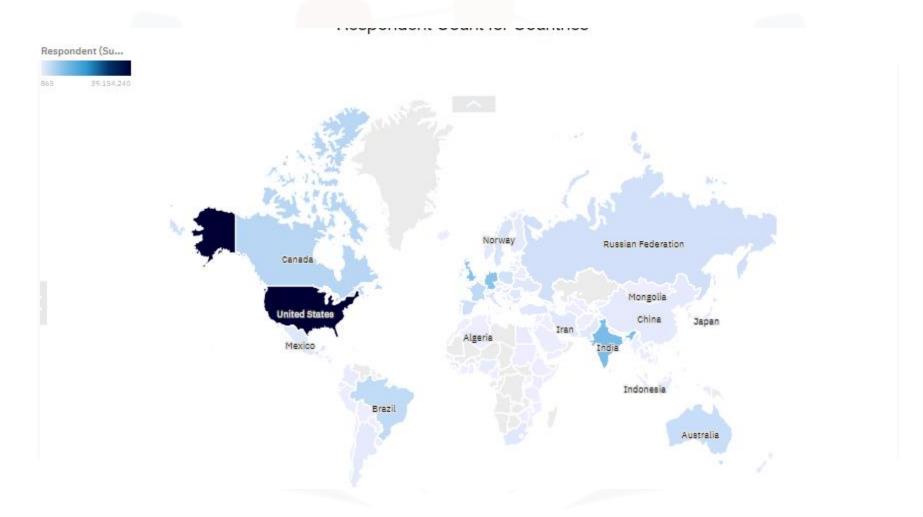
Implications

- PostgreSQL and MongoDB are consistently in demand.
- Open source databases are the preferred choice.

PERCEPTION OF POSITIONS



DEMOGRAFICTS FACTS

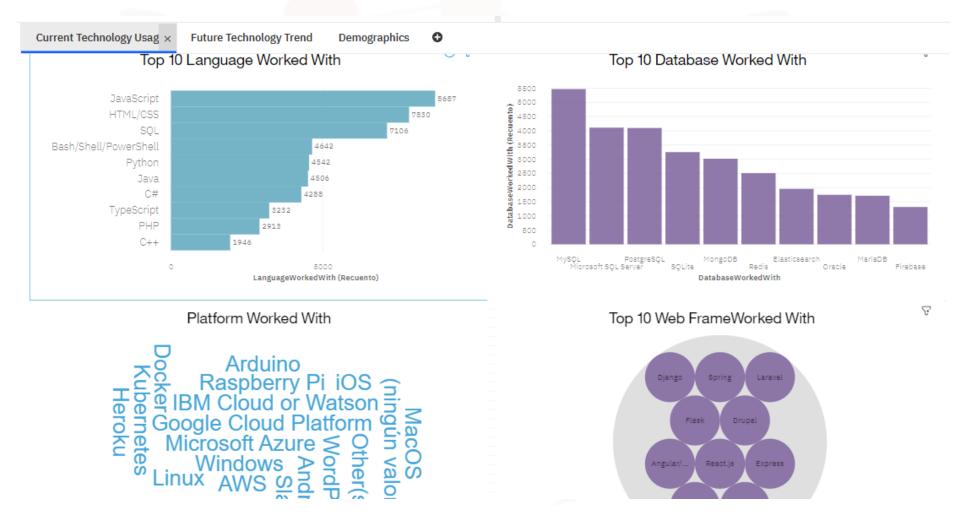


DASHBOARD



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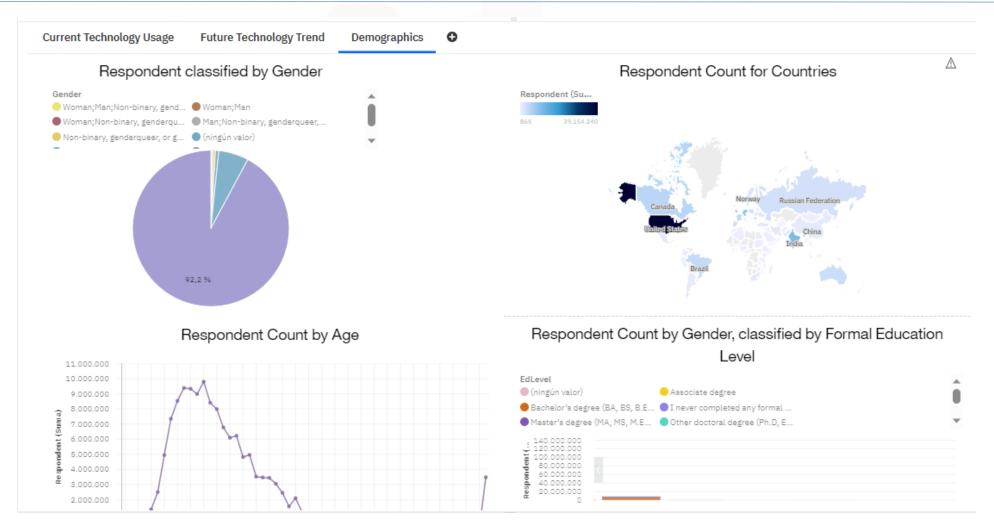
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DISCUSSION



- The IT industry is constantly evolving, with new technologies emerging and changing demand.
- The industry needs to diversify to address the gender gap.
- There is a high demand for developers.

FINDINGS & IMPLICATIONS

Findings

- Technology trends and demands can change with new advancements.
- JavaScript and Python are popular programming languages.
- PostgreSQL is a popular database.

Implications

- Companies and individuals must adapt to changing demands.
- Proficiency in in-demand skills can lead to more opportunities.
- Continuous learning and upskilling are necessary to stay relevant in the job market.

CONCLUSION



- New technologies create diverse trends and demands.
- JavaScript and Python are the most popular programming languages.
- PostgreSQL is the most popular database.
- The IT field requires diversity.
- Continuous learning and upskilling are necessary to stay relevant in the IT field.