



# Stack Overflow Developer Survey

Layla

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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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- Data contextualization and analysis
- Methodology description
  - Data gathering
  - Data analysis
  - Data visualization
- Result presentation
- Discussion of overall findings and implications
- Final Conclusion

# INTRODUCTION

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- Stack Overflow's annual developer survey is the largest and most comprehensive survey of people who code around the world
- Results do not represent everyone in the developer community evenly
- Trends to predict where the developers are going
- Characterization of developers around the world

# METHODOLOGY

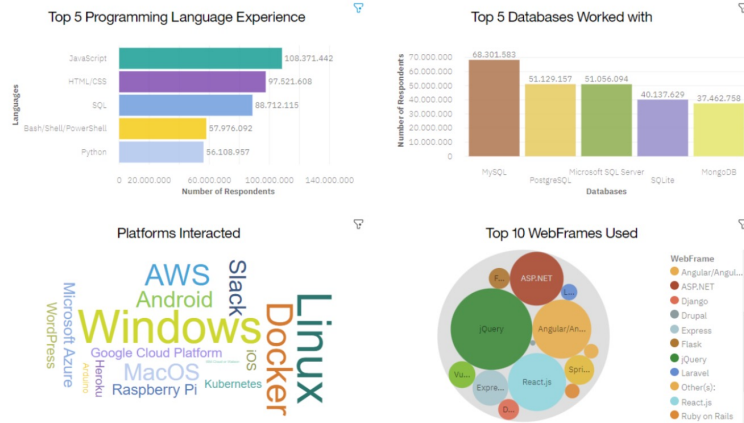
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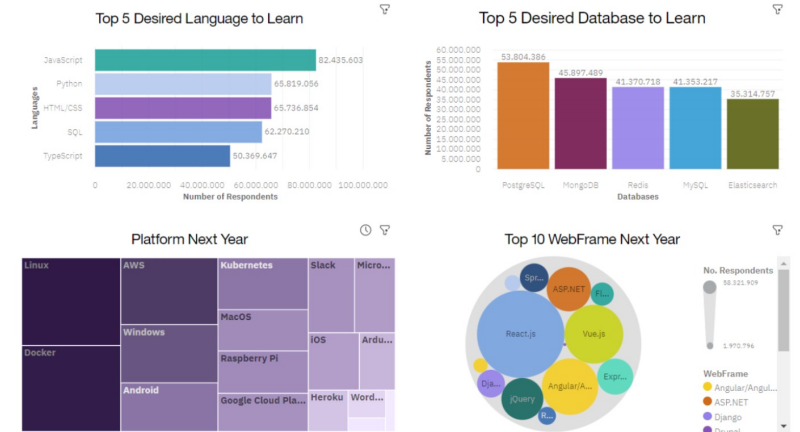
- Collect survey data & explore its content
- Data Wrangling
- Data V
- Exploratory data analysis
  - Analyzing data distribution
  - Handling outliers
  - Correlations
- Dashboards

# RESULTS

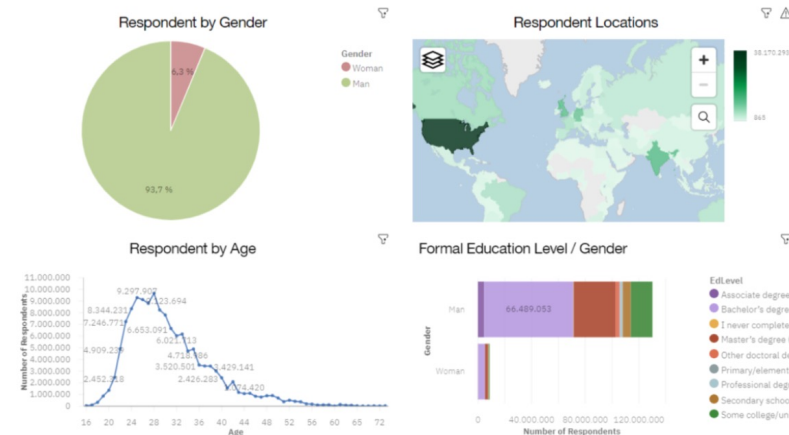
## CURRENT TECHNOLOGY USAGE



## FUTURE TECHNOLOGY TREND



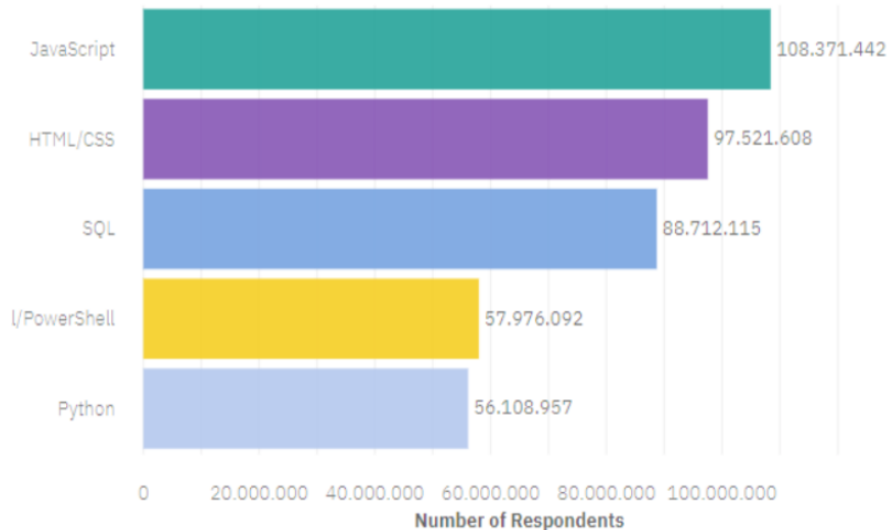
## DEMOGRAPHICS



# PROGRAMMING LANGUAGE TRENDS

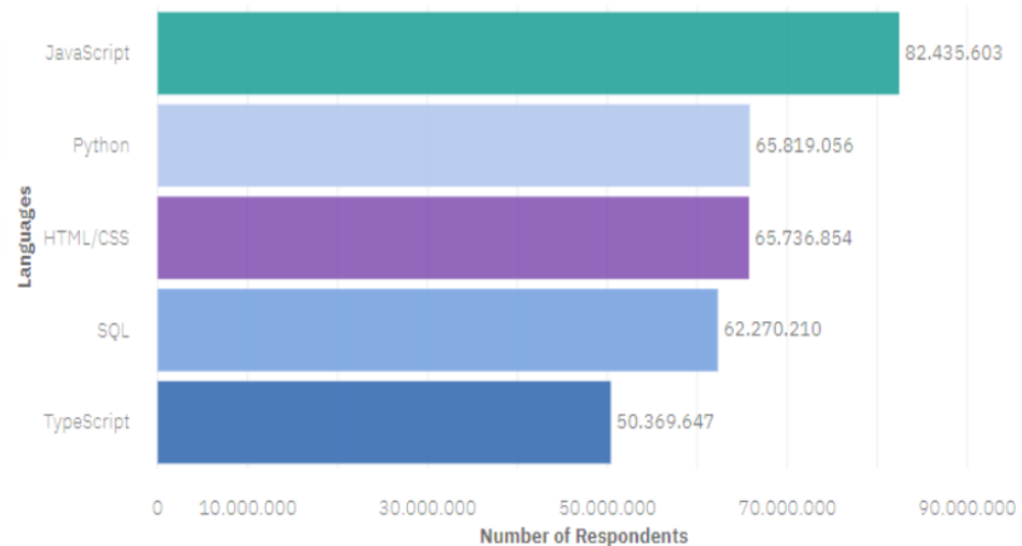
## Current Year

Top 5 Programming Language Experience



## Next Year

Top 5 Desired Language to Learn



# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- JavaScript seems to keep as leading language
- Python fastest-growing
- Great interest in TypeScript

## Implications

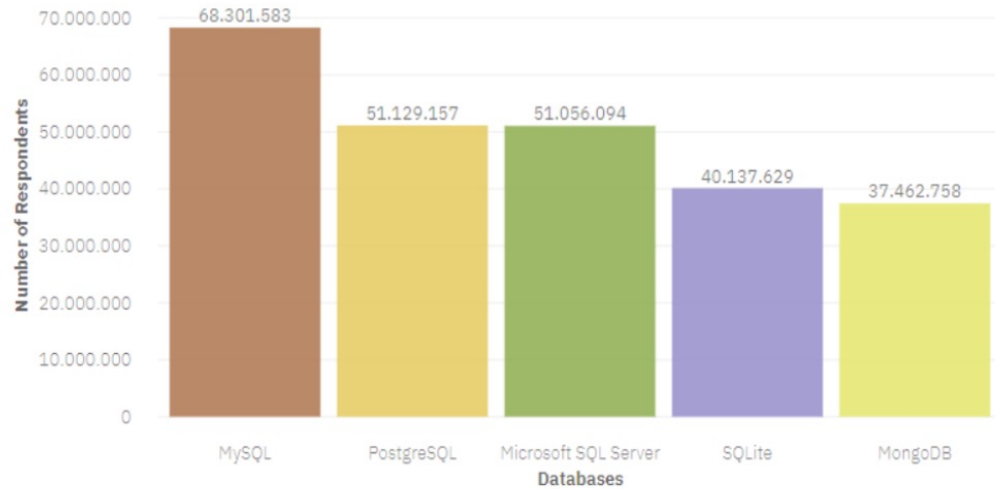
- Possible developers migration from JavaScript to TypeScript



# DATABASE TRENDS

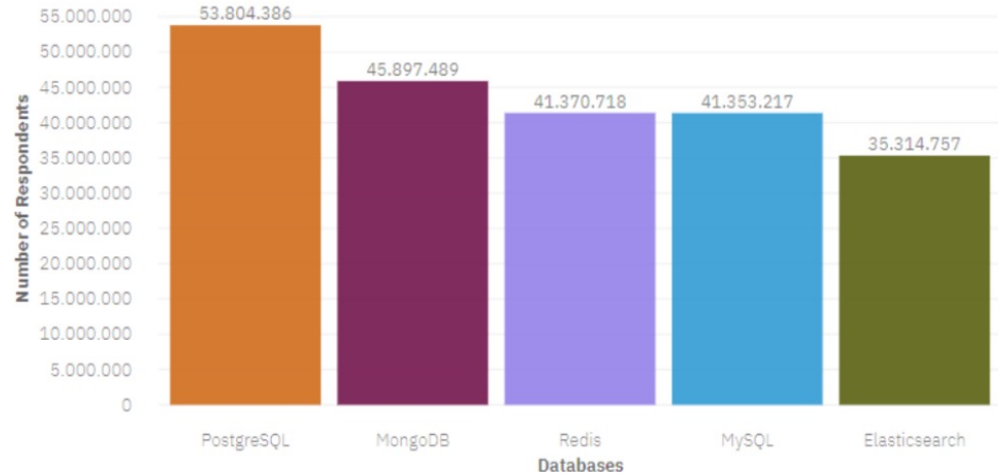
Current Year

Top 5 Databases Worked with



Next Year

Top 5 Desired Database to Learn



# DATABASE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- MySQL as most used database
- Lack of interest in Microsoft SQL Server and SQLite
- Increasing interest in PostgreSQL and MongoDB

## Implications

- Microsoft SQL Server and SQLite losing ground in the market
- PostgreSQL and MongoDB
- PostgreSQL and MongoDB establishment in the market

# DASHBOARD

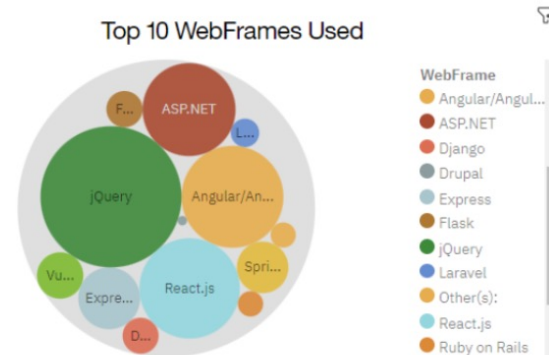
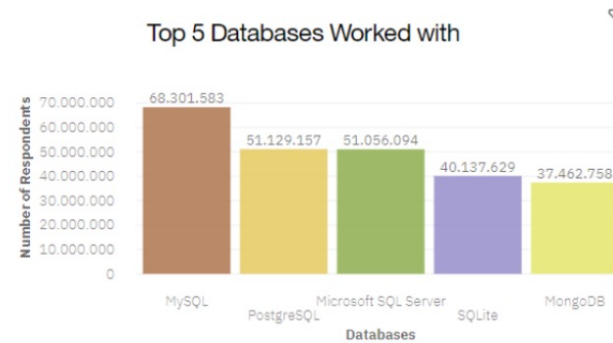
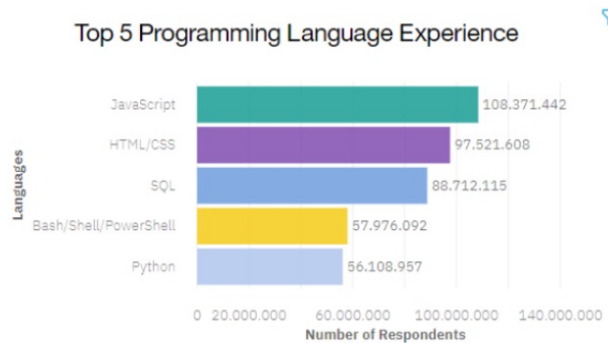
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<https://github.com/Layla-Aphrodite/IBM-Data-Analyst/blob/main/Capstone%20Project/Cognos%20Dashboard.pdf>

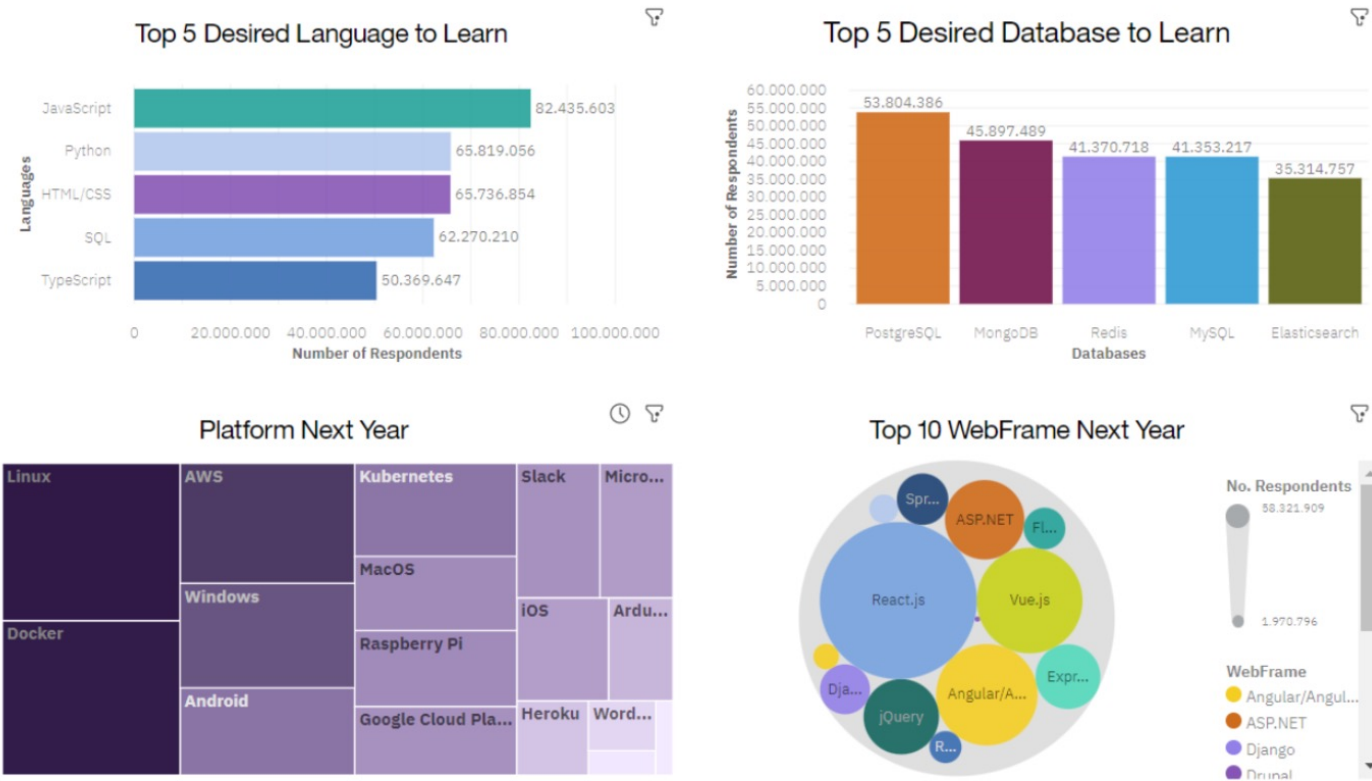
# DASHBOARD TAB 1

# CURRENT TECHNOLOGY USAGE



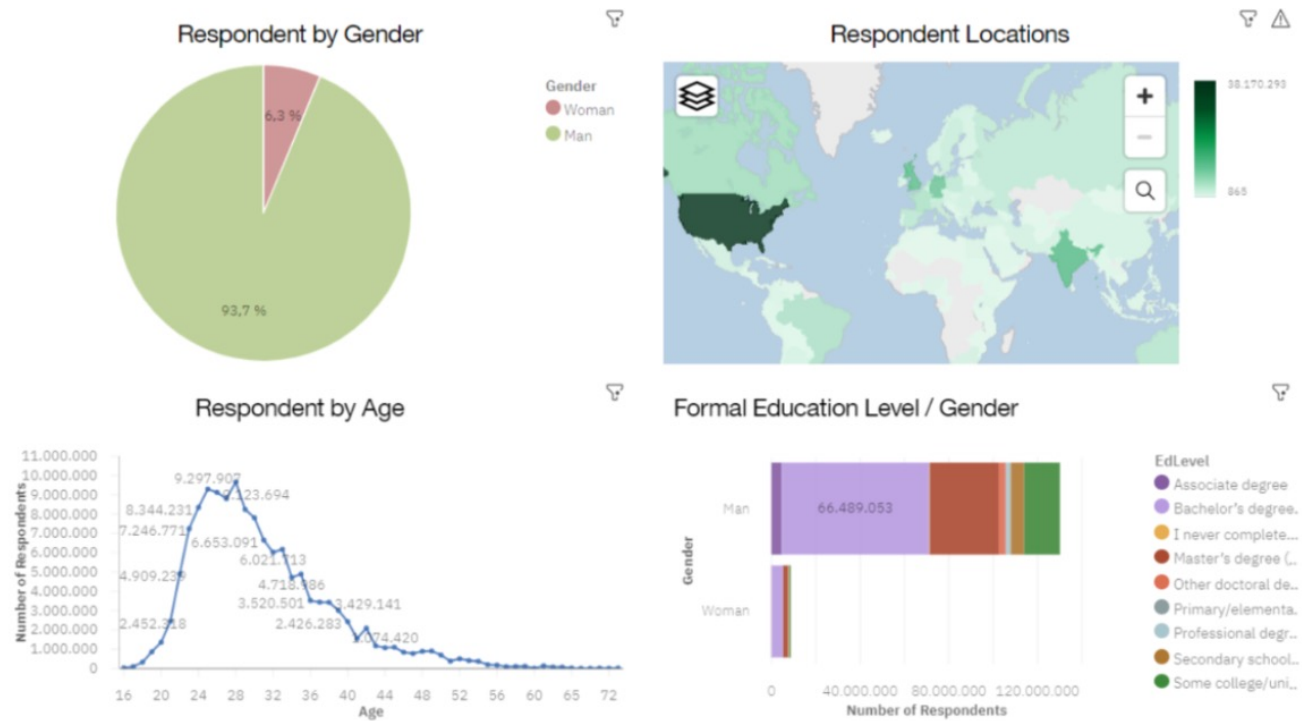
# DASHBOARD TAB 2

## FUTURE TECHNOLOGY TREND



# DASHBOARD TAB 3

## DEMOGRAPHICS



# DISCUSSION

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# OVERALL FINDINGS & IMPLICATIONS

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## Findings

- JavaScript widely used and TypeScript getting popular
- Over 90% young male developers
- Developers mostly located in developed countries

## Implications

- JavaScript and TypeScript web frames gaining followers
- Global polarization of developers location and gender
- Young developers without postgrad studies on its majority



# CONCLUSION

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- Developers are people with very marked characteristics
- A good idea of popularity trends of different tools, platforms and language can be obtained
- There is a job to be done to spread accessibility of this labor market to developing countries

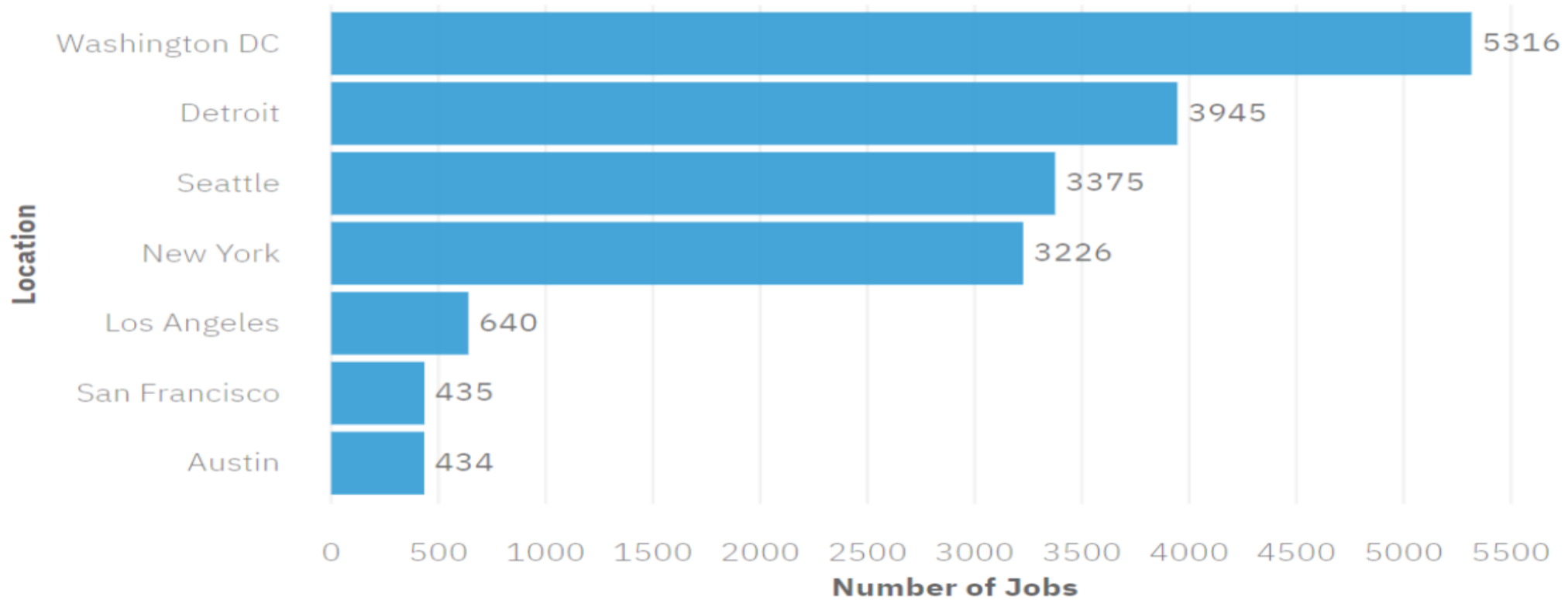
# APPENDIX

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# JOB POSTINGS

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# POPULAR LANGUAGES

