



<STACK OVERFLOW DEVELOPER SURVEY 2023>

<MUHAMMAD FAIQ
NOVEMBER 2023>

OUTLINE



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

EXECUTIVE SUMMARY



- The primary goal of this research project is to contextualize and analyze a specific dataset to gain insights and draw meaningful conclusions.
- **METHOD AND TECHNIQUES**
 - Discussion of Overall Findings and Implications
 - Data Visualizations
 - Data Gathering
- **Data Visualizations:**
- These visualizations allowed us to present complex data in a clear and concise manner.
- The results of our analysis are presented with a comprehensive set of graphs and trends
- **Discussion of Overall Findings and Implications**
- In the discussion section, we delve into the overall findings and their implications

INTRODUCTION



- The Developer Survey conducted by Stack Overflow stands as the world's most extensive and comprehensive examination of individuals involved in coding across the globe.
- It's important to note that the findings may not evenly represent every segment of the developer community.
- The survey was completed by almost 90,000 developers.
- **Trends to predict where the developers are going**
 - The survey provides a comprehensive characterization of developers worldwide
 - These trends serve as indicators for predicting the future paths of developers

METHODOLOGY



- Explanation of the Methodology
 - Methodology Overview and Methodology Exposition
 - Data Wrangling
 - Exploratory data analysis
 - Analyzing data distribution.
 - Handling outliers.
 - Correlations.
 - Data Visualization
 - Highlight distribution of data, relationships, the composition and comparison of data.
 - Dashboards
 - Final Thoughts on the Research Undertaking

RESULTS

- **Final Conclusions of the Carried Out Research:**
- Ultimate Research Conclusions
- Conclusive Remarks of the Conducted Study
- Final Thoughts on the Research Undertaking

PROGRAMMING LANGUAGE TRENDS

Current Year

<Bar chart of top 10 programming languages for the current year goes here.>

Next Year

< Bar chart of top 10 programming languages for the next year goes here.>

PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- JavaScript continues to maintain its position as the top language of choice.
- Python is experiencing rapid growth, surpassing all other languages.
- Developers are highly intrigued by TypeScript.

Implications

- Possible developers migration from JavaScript to TypeScript.

DATABASE TRENDS

Current Year

< Bar chart of top 10 databases for the current year goes here >

Next Year

< Bar chart of top 10 databases for the next year goes here.>

DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Finding 1
- Finding 2
- Finding 3

Implications

- Implication 1
- Implication 2
- Implication 3

DASHBOARD

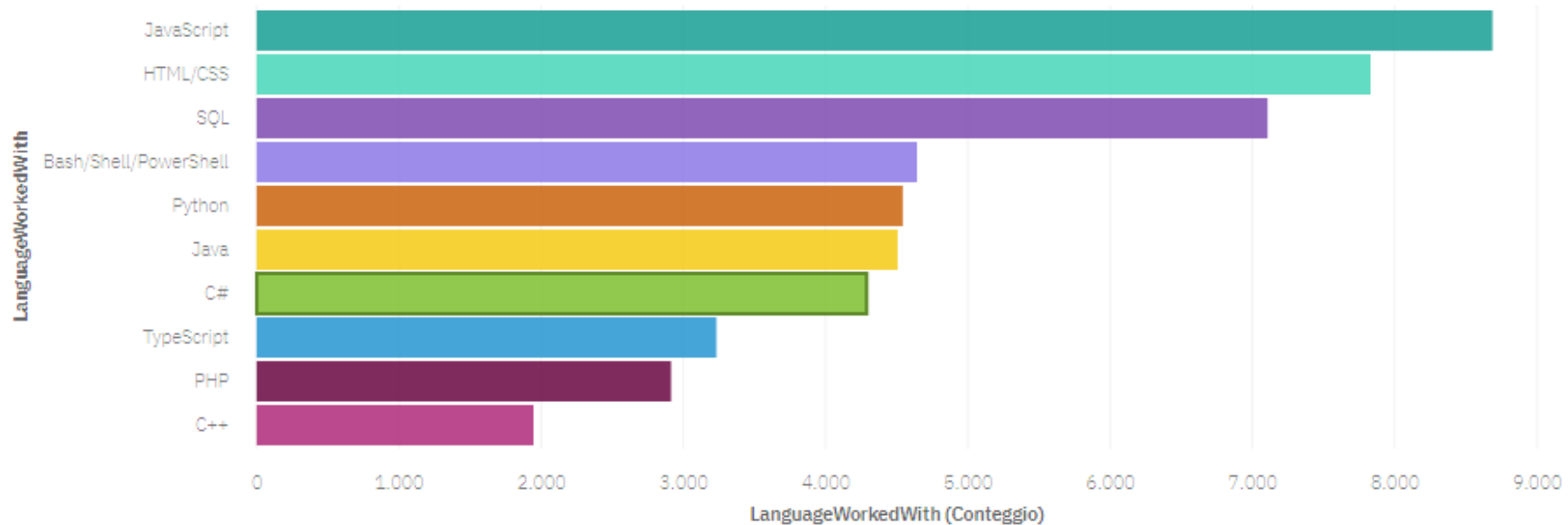


<The permanent link of the read-only view of the Cognos dashboard goes here.>

<https://github.com/faiqkhan7/IBM-Data-Analyst-Capstone-Project>

DASHBOARD TAB 1

Screen

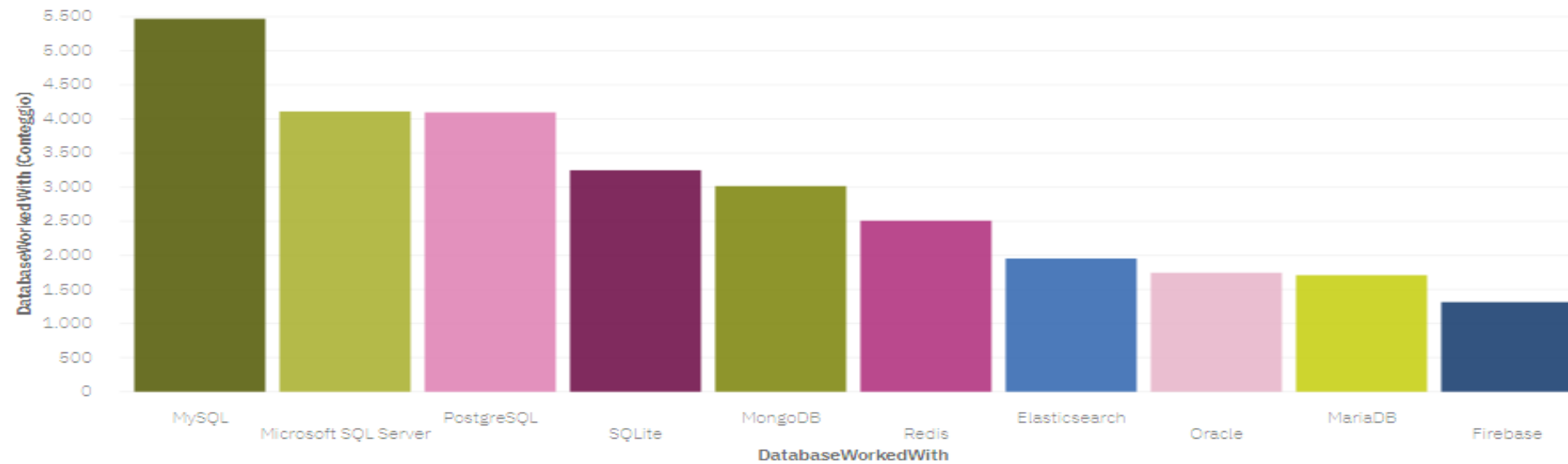


DASHBOARD TAB 2

Top 10 Database Worked With

DatabaseWorkedWith

DatabaseWorkedWith
Elasticsearch
PostgreSQL
Firebase
Redis
MariaDB
SQLite
Microsoft SQL Server
MongoDB
MySQL
Oracle



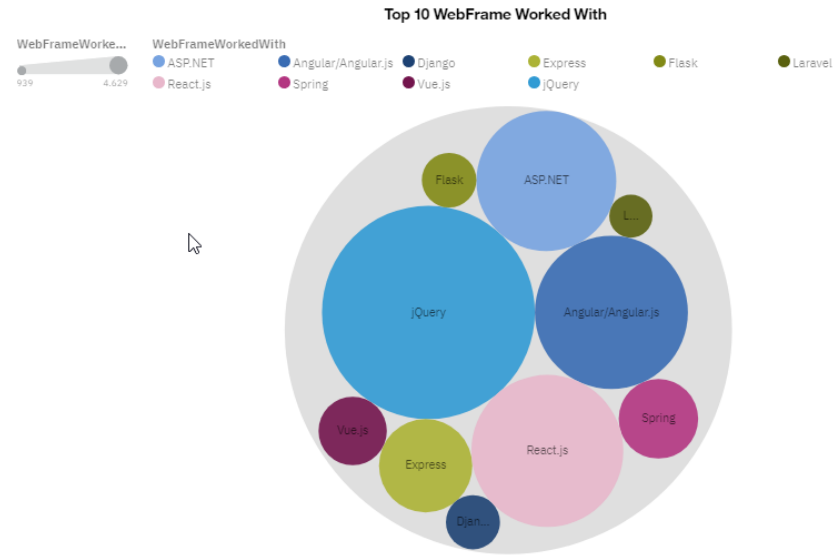
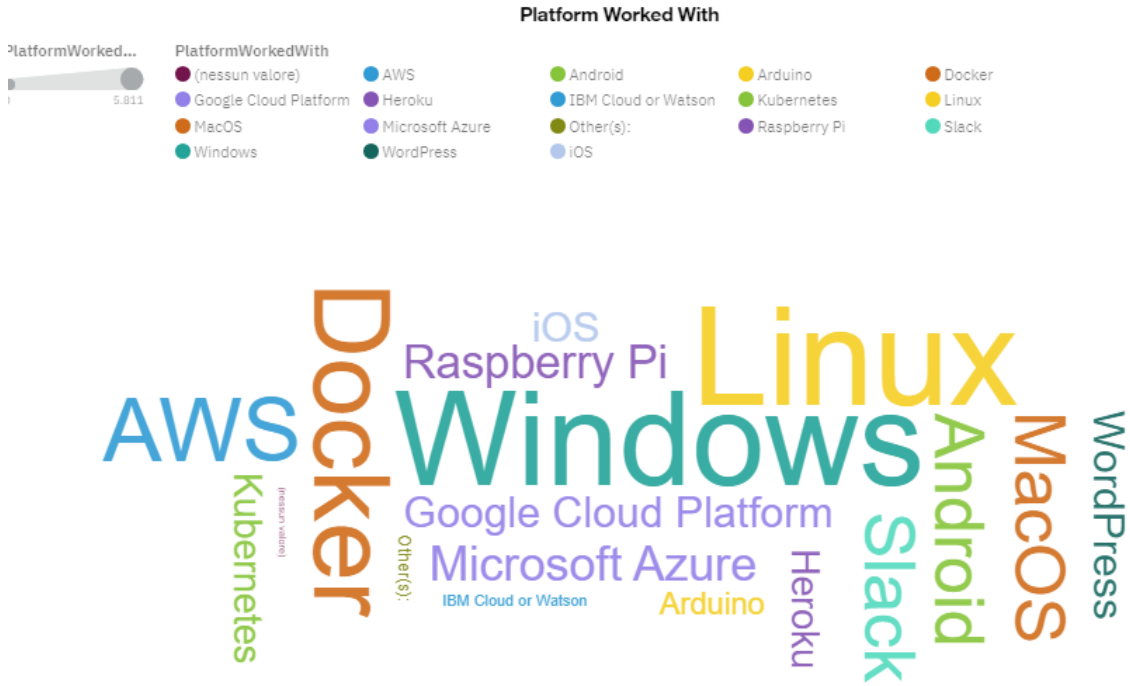
Top 10 WebFrame Worked With

WebFrameWorke...

WebFrameWorkedWith

WebFrameWorkedWith
ASP.NET
React.js
Angular/Angular.js
Spring
Django
Vue.js
Express
jQuery
Flask
Laravel

DASHBOARD TAB 3



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- It appears that JavaScript is holding onto its leadership role.
- Python is experiencing rapid growth, surpassing all other languages.
- Developers are highly intrigued by TypeScript

Implications

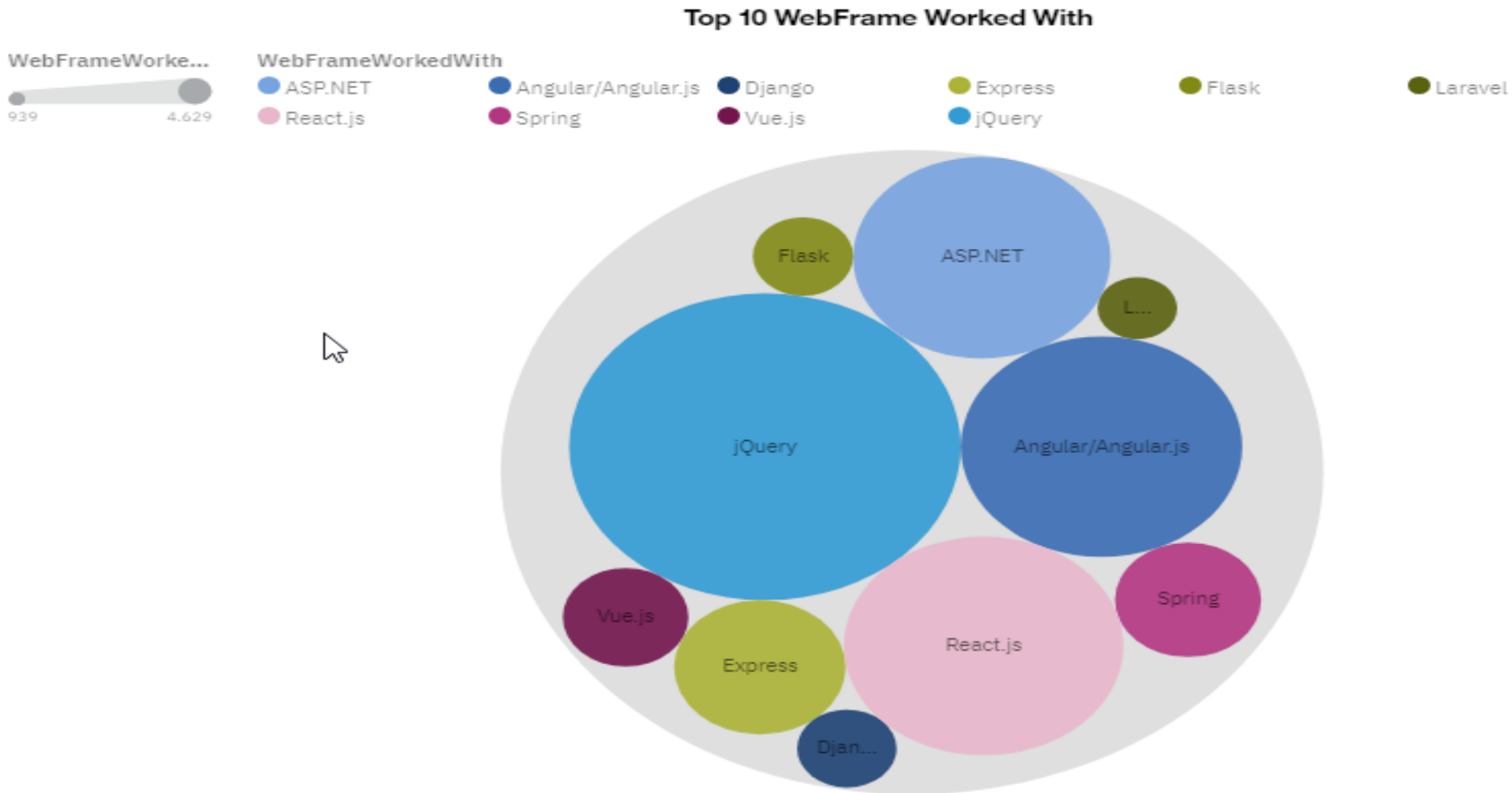
- The popularity of web frameworks built on JavaScript and TypeScript is on the rise
- The developer community shows a significant split in terms of location and gender on a global scale.
- Developers' locations and gender exhibit a striking polarization on a global level.
- A significant number of young developers have not completed postgraduate education.

CONCLUSION

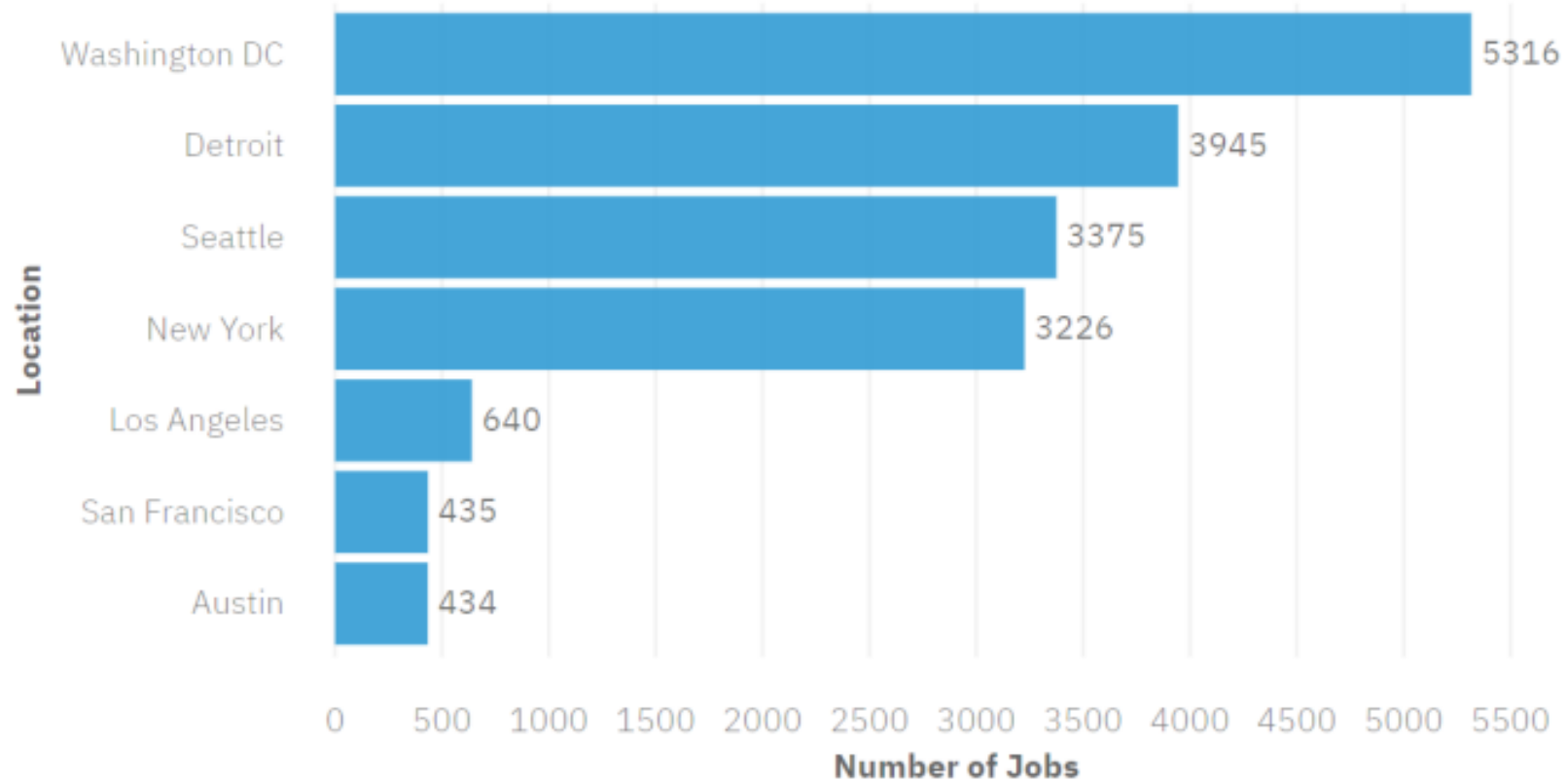


- Developers are people with very marked characteristics.
- A good idea of popularity trends of different tools, platforms and languages can be obtained.
- There is a job to be done to spread accessibility of this labor market to countries in development.

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

