

# The Stack Overflow Data 2025

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# OUTLINE



- **□** Executive Summary
- □Introduction
- Methodology
- **□**Results
  - ☐ Visualization Charts
  - Dashboard
- **□** Discussion
  - ☐ Findings & Implications
- □ Conclusion
- □ Appendix

# **EXECUTIVE SUMMARY**



- ☐ Evaluate & Interpret Data Objective
- ☐ Techniques of Data Collection
  - ☐ Data cleaning
  - ☐ Data analysis
  - □ Data Visualization
  - ☐ Data Wrangling
- □Outcome presentation backed by Current and Future graphs and trends.
- □ Consideration of the findings and conclusions of the data results.
- ☐ Final Conclusion

# INTRODUCTION



- Stack Survey data represents an extensive database on people around the world by age, education level, coding languages, and more.
- ☐ Data results fluctuate between developers.
- Languages widely use between developers.
- ☐ Envision the direction developers are going.
- Different developers and cultures embracing coding and technology.

# **METHODOLOGY**

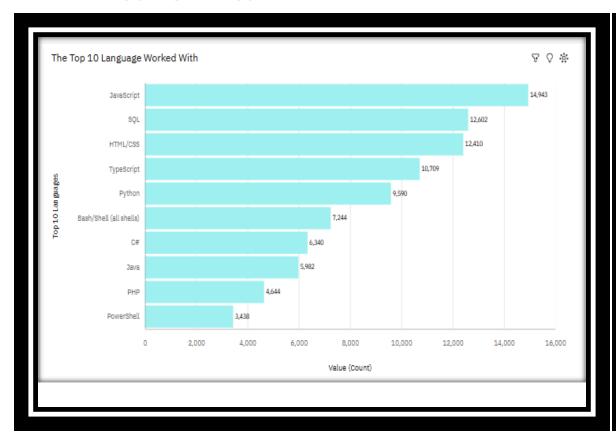


- ☐ Gather data & analyze the information
  - Web scraping
  - ☐ Python Libraries (Panda, NumPy, Matplotlib, etc.)
  - □ ChatGPT
- □ Data Wrangling
- □ Data Analysis Inquiry
  - ☐ Data cleaning
  - ☐ Data quality
  - ☐ Data patterns
  - Data variables
- Data Visualization
  - Storying telling with data using graphs, plotting trends, and making the data assessable.
- Dashboards

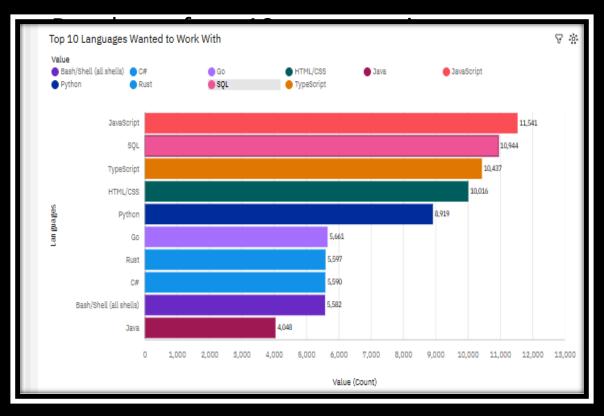


# PROGRAMMING LANGUAGE TRENDS

#### **Current Year**



#### **Next Year**



# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

#### **Findings**

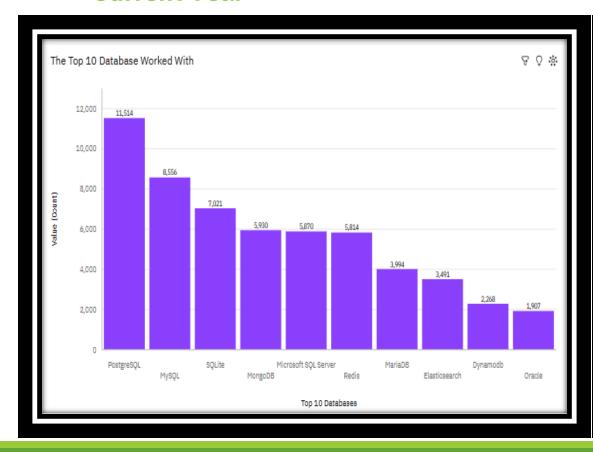
- □ JavaScript is the leading language used and learned
- □ SQL use is growing
- ☐HTML/CSS, TypeScript, & Python is steadily advancing

#### **Implications**

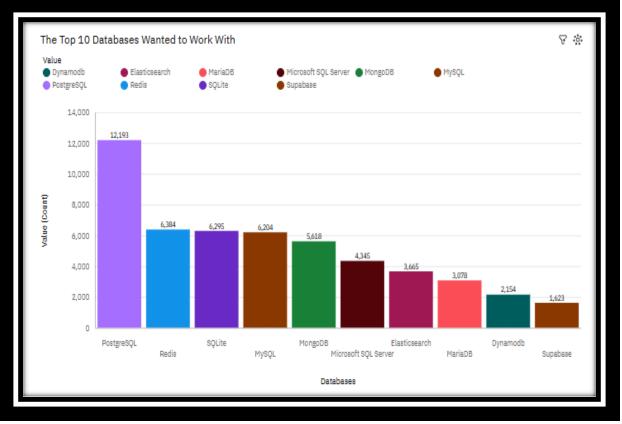
□ JavaScript, SQL, and TypeScript will be the most languages used and wanted to experience at this time.

# DATABASE TRENDS

#### **Current Year**



#### **Next Year**



# DATABASE TRENDS - FINDINGS & IMPLICATIONS

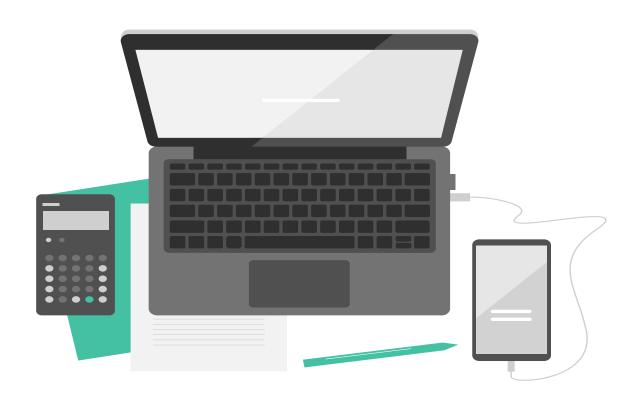
#### **Findings**

- ☐ PostgreSQL Database is the most worked with and experienced.
- ■MySQL losing traction in the market.
- □SQLite and Redis are moving up in the market.
- □ Although Oracle is currently used it is not in the future.

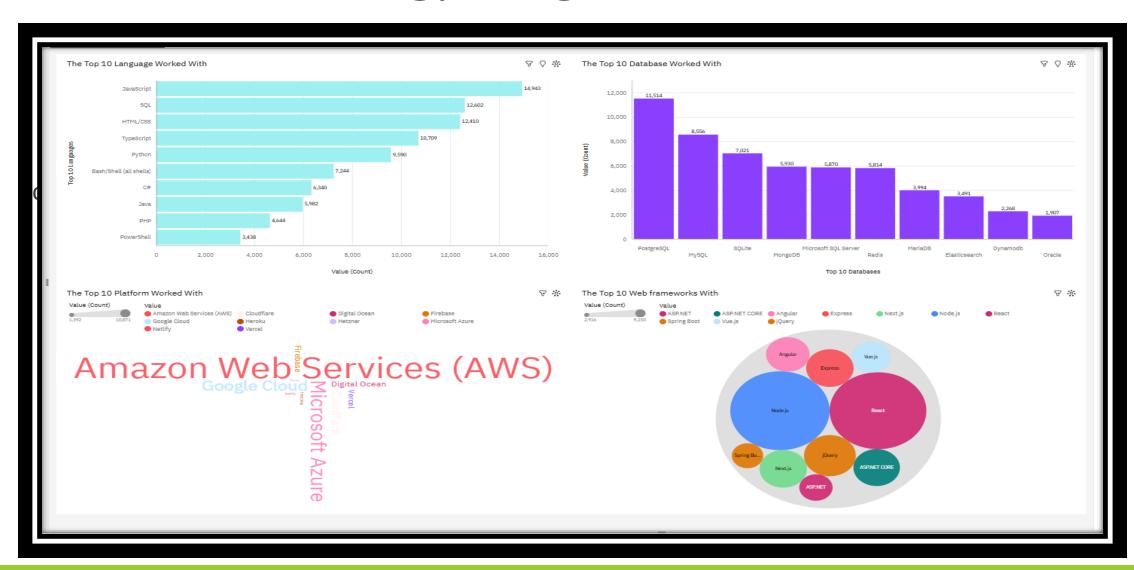
#### **Implications**

- ☐ PostgreSQL Database is dominating both current and future trends.
- □Oracle is complete off the market for now.
- □ SQLite and Redis Databases are steadily establishing themselves.

# **DASHBOARD**



# **Current Technology Usage**



# Future Technology Trends



# Demographics



# DISCUSSION



### OVERALL FINDINGS & IMPLICATIONS

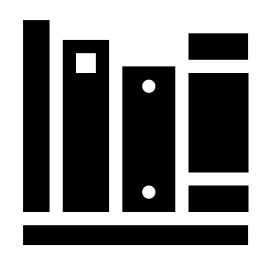
#### **Findings**

- □ JavaScript Language is leading and SQL getting popular.
- PostgreSQL Database is popular for current usage and future trends.
- □ Developers mostly between ages of 25 34 years.
- □ Developers education 42.3 % Bachelor degrees.
- □ Developers mostly from highly developed countries.

#### **Implications**

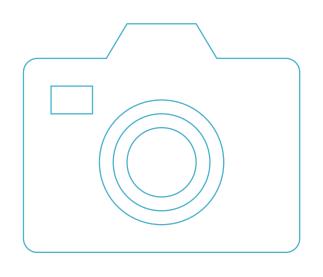
- □ JavaScript and SQL will continue rising between developers
- □PostgreSQL Database will rise as well.
- □Global education, age, and cultures will be a deciding factor in the understand of coding and new technologies.

# CONCLUSION



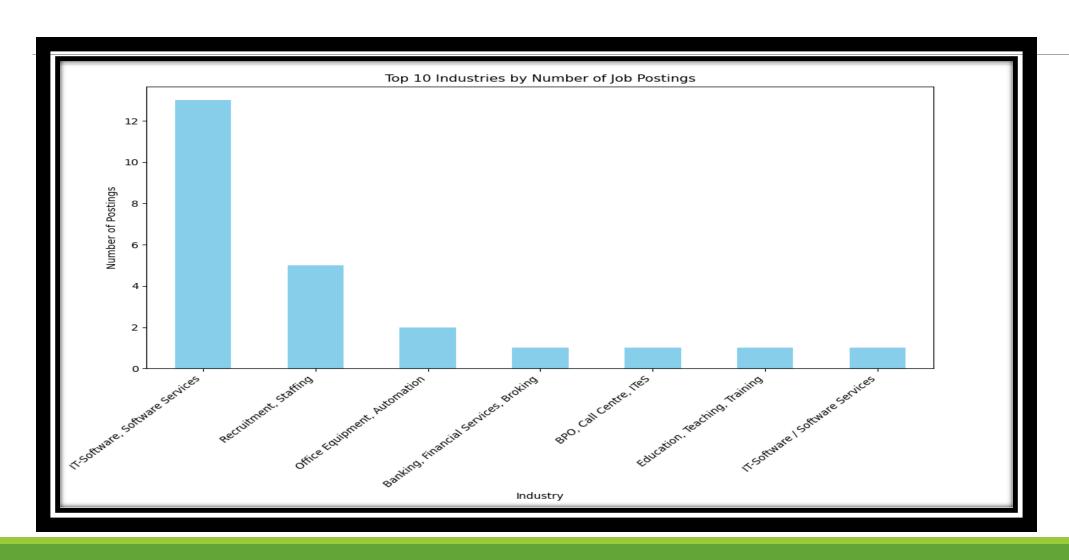
- Developers are unique in establishing what languages are wanted and which ones they really want to learn or experience.
- Languages, Databases and Platforms can be used and learned through popularity and education.
- ☐ More effort needs to be put toward this market for newly developed countries.

# **APPENDIX**



☐ Included relevant additional charts, and tables created during the analysis phase.

# JOB POSTINGS IN INDUSTRY



# POPULAR LANGUAGES

