



Insights of Technology Trend

Enji Song

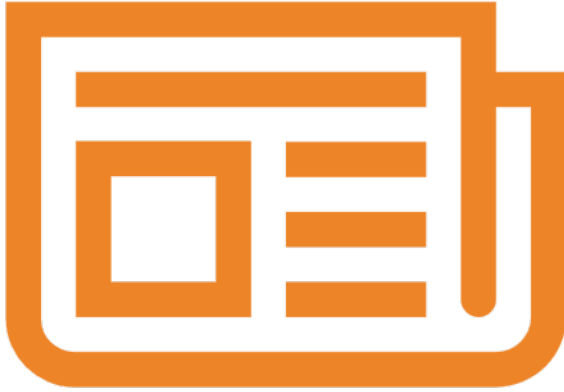
13-06-2021

INTRODUCTION



- Objective of Report
 - Identifying insights of Programming skills
 - Preparing for changing technologies
- What you need to focus on
 - Future Programming language requirements
 - Future trends of database skill, IDEs

METHODOLOGY

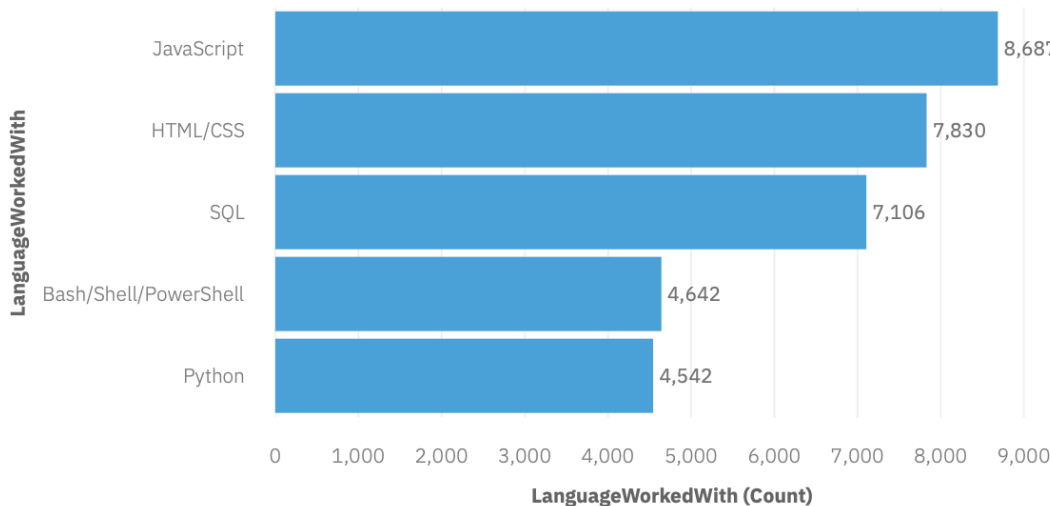


- Data Collection
 - Data source
 - Github Job Posting
 - Survey data technologies
 - Training Portals
- Data Wrangling
- Exploratory Data Analysis
- Data Visualization
- Dashboard

PROGRAMMING LANGUAGE TRENDS

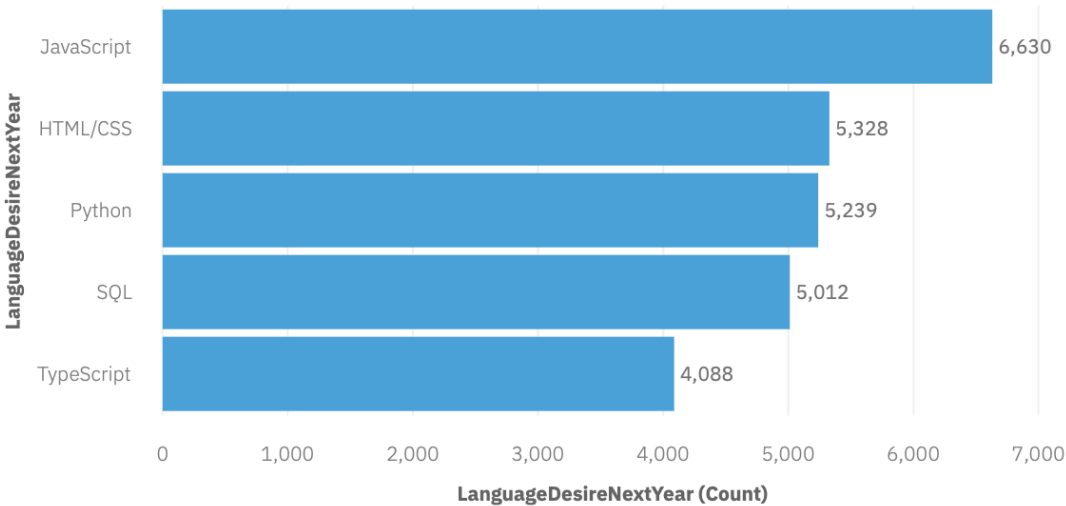
Current Year

Top 5 Language worked with



Next Year

Top 5 LanguageDesireNextYear



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Java Script will be on top trend language
- Python and Type Script will be more important
- The Prospect of Bash/Shell will decrease

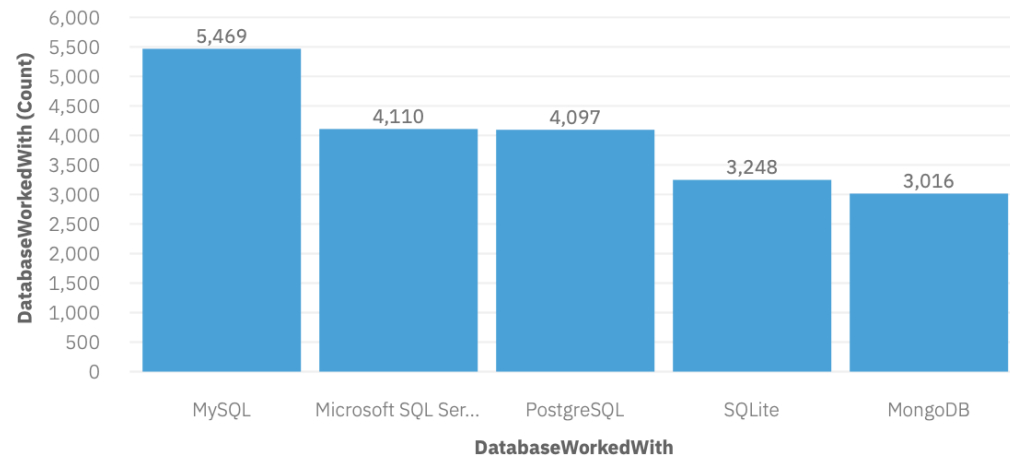
Implications

- Need to develop Java Script/HTML,CSS skill
- More requirements of Python & Type Script than Bash/Shell

DATABASE TRENDS

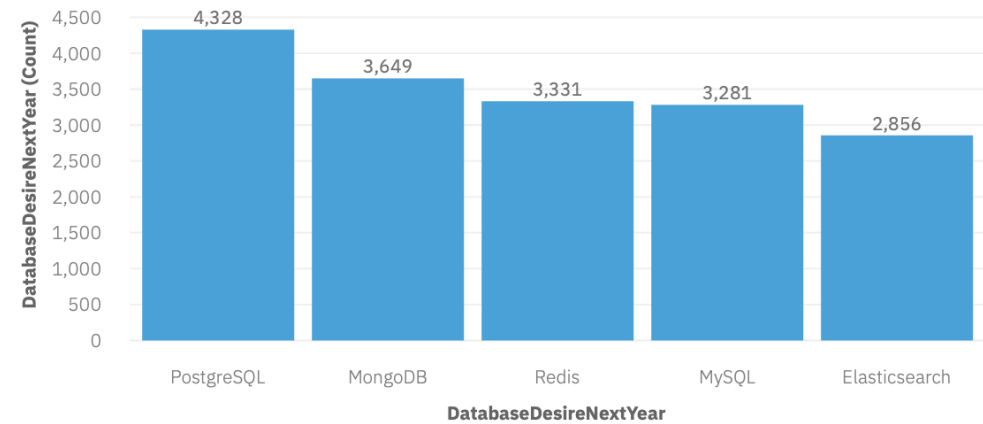
Current Year

Top 5 Database worked with



Next Year

Top 5 Database Desire Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- PostgreSQL will be top trend database
- Redis and Elasticsearch will become new required database
- Use of Microsoft SQL Server and SQLite will decrease

Implications

- Need to know manage PostgreSQL, MongoDB
- Recommended learning New Required database instead of Microsoft SQL, SQLite

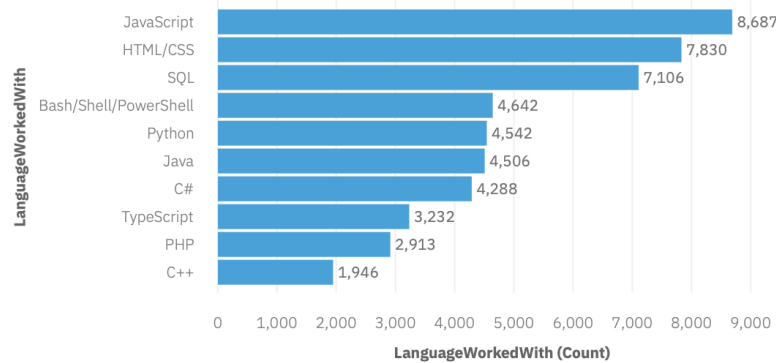
DASHBOARD



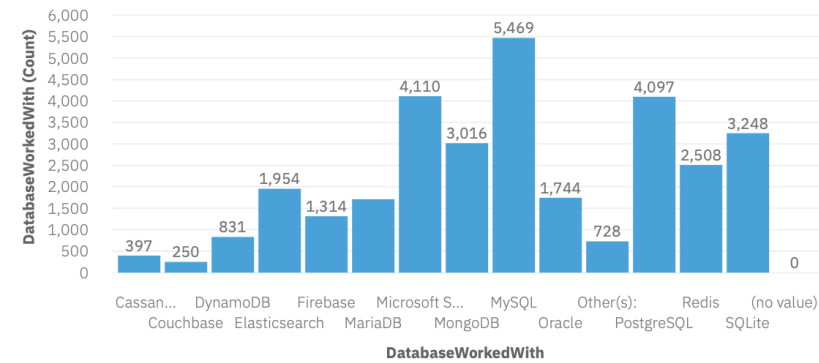
<[https://dataplatfom.cloud.ibm.com/dashboards/823b
cfde-0fce-4976-b005-
c170060c5a91/view/5d16fc17018b62c972c2cce4079f2f
552837255bb5bbd505d5877b495c362097f06f1491c87b
1d5e8915506ba0ef465acd](https://dataplatfom.cloud.ibm.com/dashboards/823b
cfde-0fce-4976-b005-
c170060c5a91/view/5d16fc17018b62c972c2cce4079f2f
552837255bb5bbd505d5877b495c362097f06f1491c87b
1d5e8915506ba0ef465acd)>

Current Technology Usage

Top 10 Language worked with



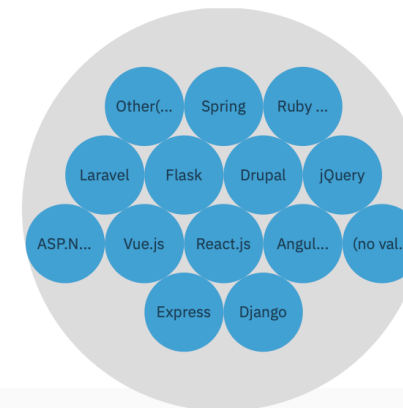
Top 10 Database worked with



Platform worked with

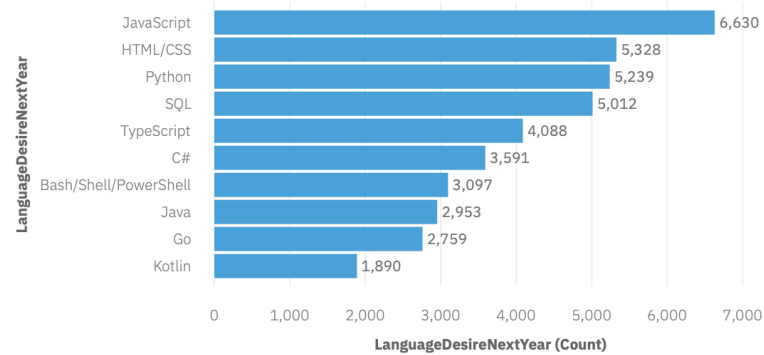


Web Frame worked with

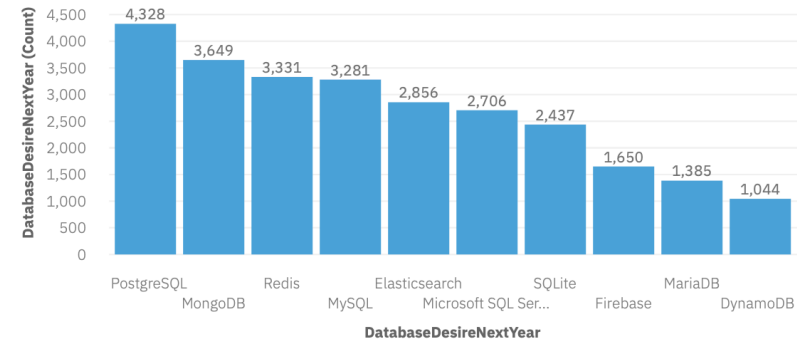


Future Technology Trend

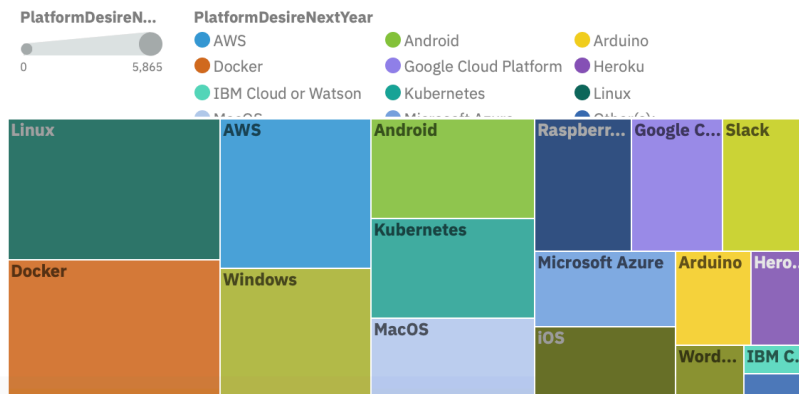
Top 10 Language Desire Next Year



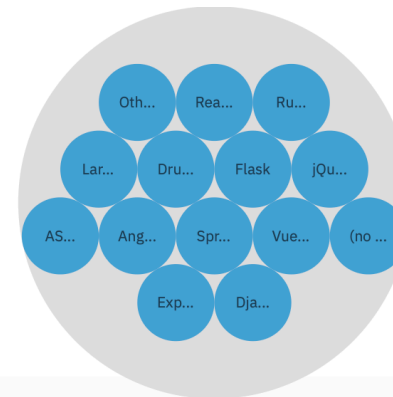
Top 10 Database Desire Next Year



Platform Desire Next Year



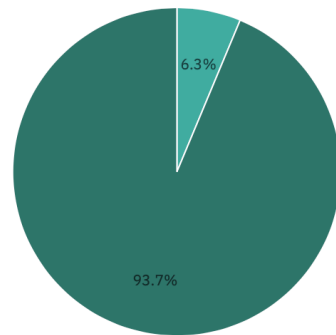
Top 10 Web Frame Desire Next Year



Demographics

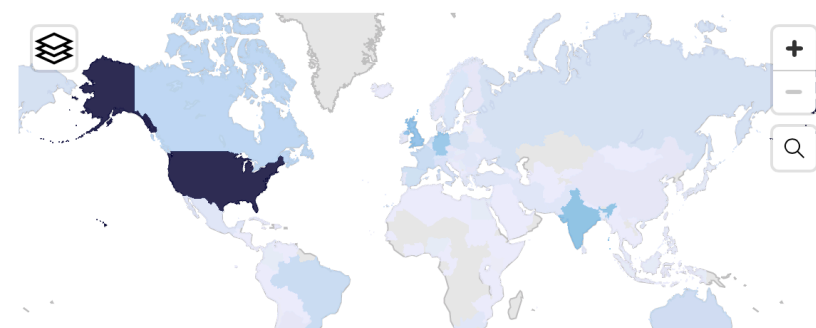
Respondent by gender

Gender
● Woman ● Man

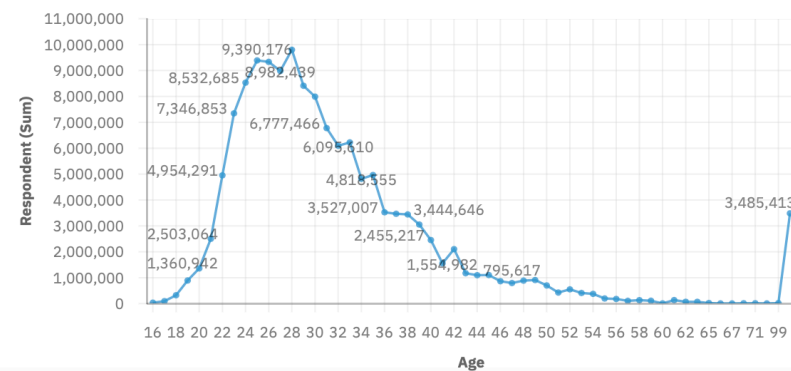


Respondent by Country

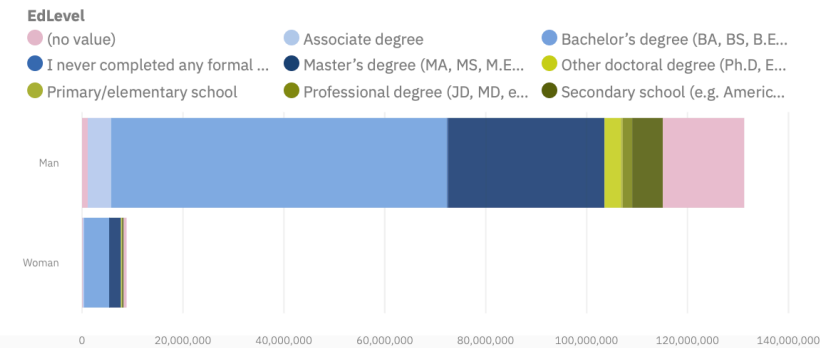
Respondent (Sum)
865 39,154,240



Respondent by Age



Respondent Count by Gender, classified by Formal Education Level



DISCUSSION



- Actual and future Technology trend
- Gender, Age, Country and Education distribution of respondents

OVERALL FINDINGS & IMPLICATIONS

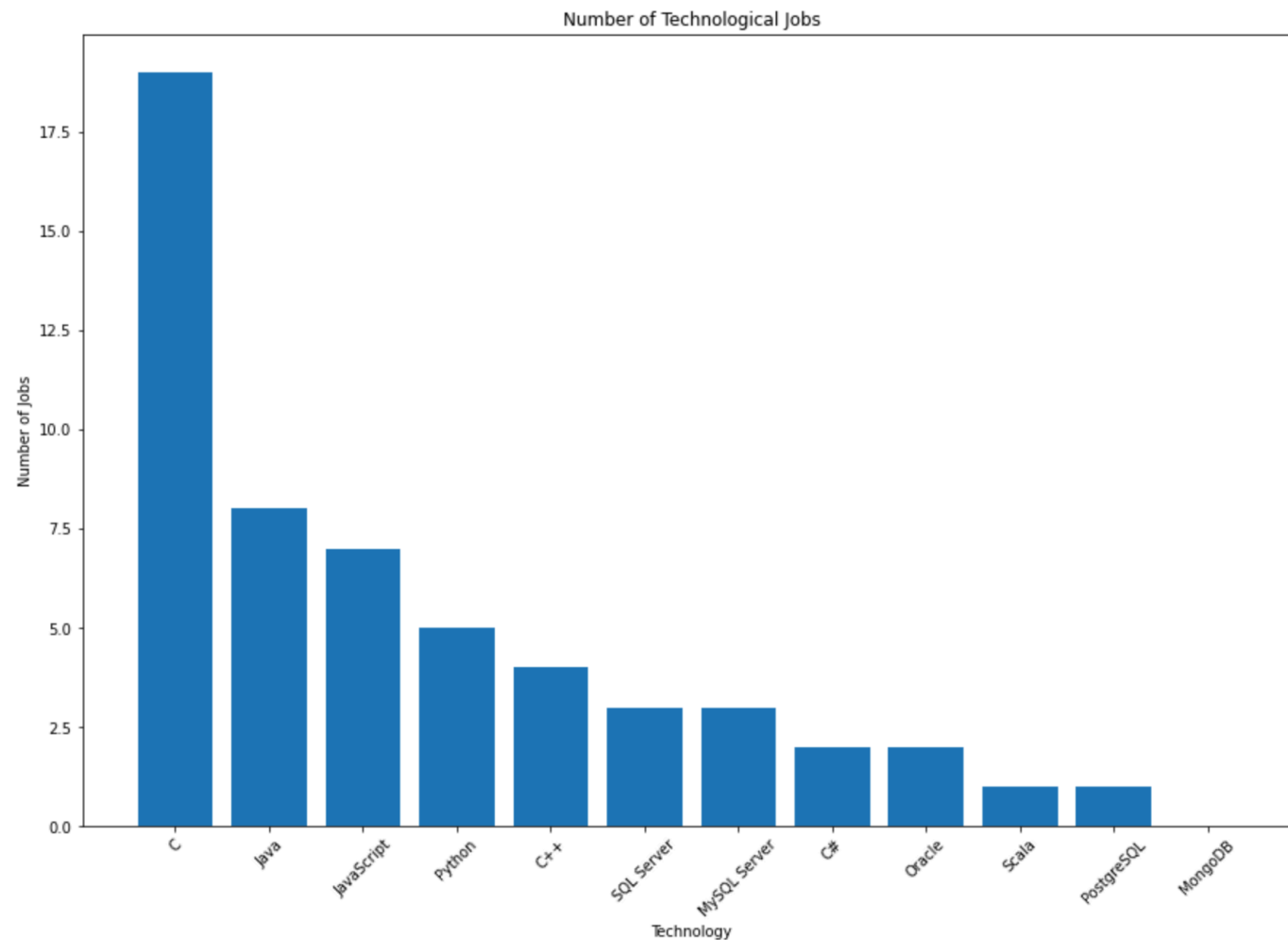
Findings

- Trend of changing Programming languages, Database, Platform, Web frame
- Dramatic variation of demographic factors in technological profession

Implications

- Develop oneself to keep up with industry trends
- Need to improve the company environment that can enter a diverse population

GITHUB JOB POSTINGS



POPULAR LANGUAGES

