IBM Data Analytics Capstone Project

Current Technology Usage

1

Top 10 Languages by number of Respondents use

- JavaScript — 8,687
- HTML/CSS — 7,830
- SQL — 7,106
- Bash/Shell/PowerShell — 4,642
- Python — 4,542
- Java — 4,506
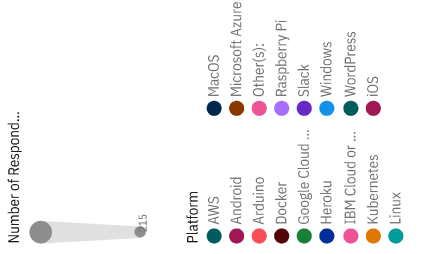- C# — 4,288
- TypeScript — 3,232
- PHP — 2,913
- C++ — 1,946

Number of Respondents

Language

2
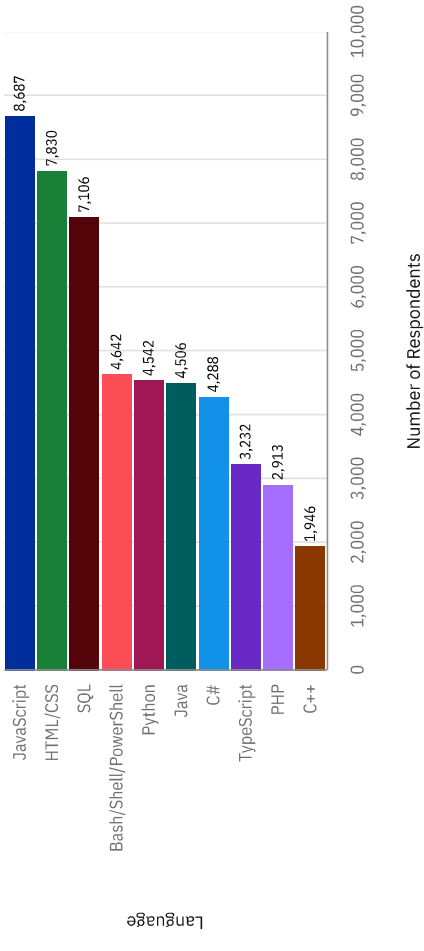
Top 10 DataBases by number of Respondents use

- MySQL — 5,469
- Microsoft SQL Se... — 4,110
- PostgreSQL — 4,097
- SQLite — 3,248
- MongoDB — 3,016
- Redis — 2,508
- Elasticsearch — 1,954
- Oracle — 1,744
- MariaDB — 1,709
- Firebase — 1,314

Number of Respondents

Database

3
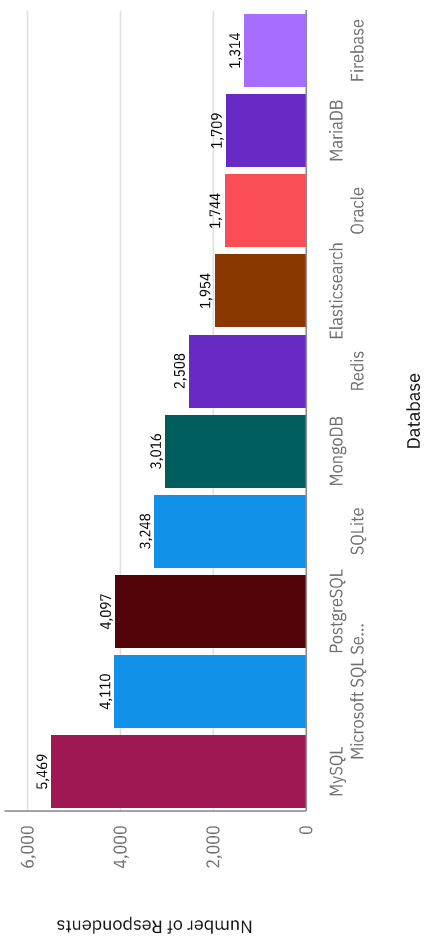
Platforms by number of Respondents use

Number of Respond... 15

Platform
- AWS
- Android
- Arduino
- Docker
- Google Cloud ...
- Heroku
- IBM Cloud or ...
- Kubernetes
- Linux
- MacOS
- Microsoft Azure
- Other(s):
- Raspberry Pi
- Slack
- Windows
- WordPress
- iOS

4

Top 10 Web FrameWorks by number of Respondents use

Number of Respond... 39

Name of Framework
- ASP.NET
- Angul...
- Django
- Express
- Flask
- Laravel
- React.js
- Spring
- Vue.js
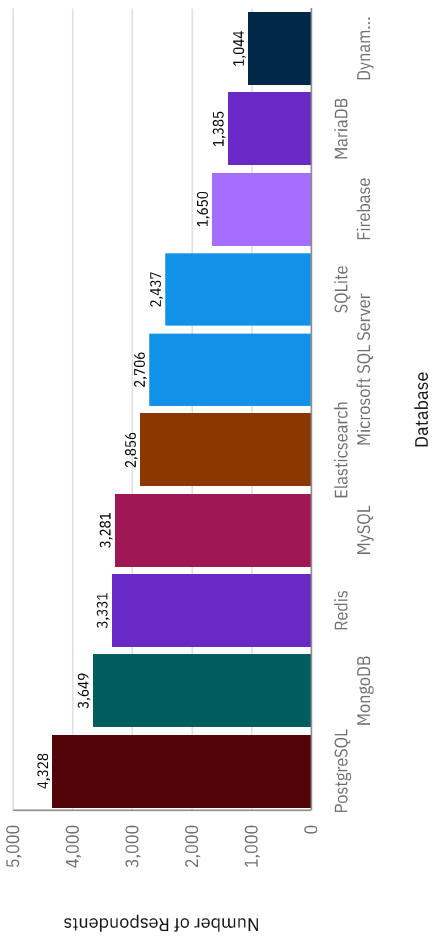- jQuery

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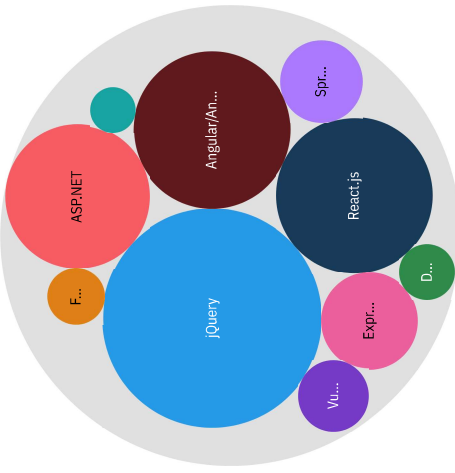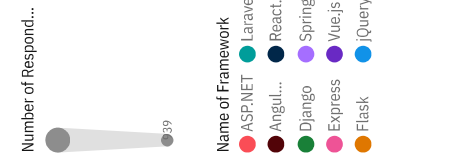
Future Technology Trend

5

Top 10 Languages Desired to Work with by Respondents

- JavaScript: 6,630
- HTML/CSS: 5,328
- Python: 5,239
- SQL: 5,012
- TypeScript: 4,088
- C#: 3,591
- Bash/Shell/PowerShell: 3,097
- Java: 2,953
- Go: 2,759
- Kotlin: 1,890

Number of Respondents (axis: 0 to 8,000)

Language (y-axis)

6

Top 10 DataBases Desired to Work with by Respondents

- PostgreSQL: 4,328
- MongoDB: 3,649
- Redis: 3,331
- MySQL: 3,281
- Elasticsearch: 2,856
- Microsoft SQL Server: 2,706
- SQLite: 2,437
- Firebase: 1,650
- MariaDB: 1,385
- Dynam...: 1,044

Number of Responders (axis: 0 to 5,000)

Database (x-axis)

7
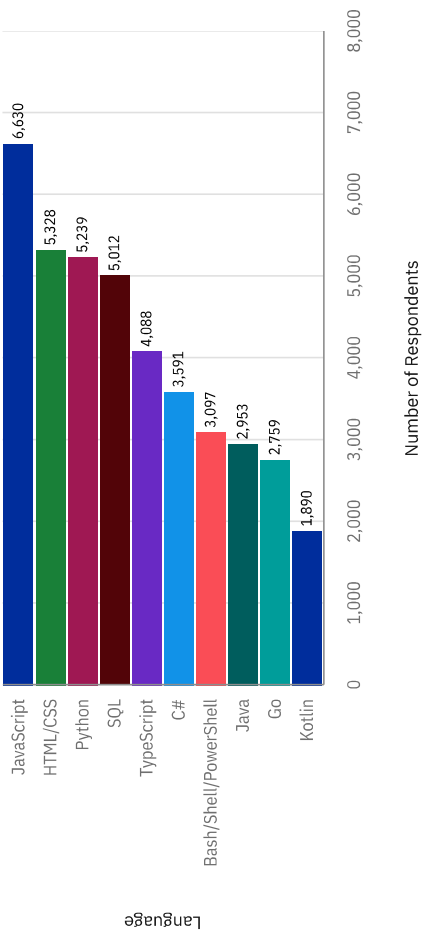
Platforms Desired to Work with by Respondents

- Linux: 5,865
- Docker: 5,804
- AWS: 4,442
- Windows: 3,888
- Android: 3,231
- Kubernetes: 3,201
- MacOS: 2,593
- Raspberry Pi: 2,525
- Google Cl...: 2,401
- Slack: 2,359
- Microsof...: 2,114
- iOS: 1,987
- Arduino: 1,399
- Heroku: 1,121
- Wo...: 704
- IBM ...: 373
- Oth...: 307

Number of Respo...

Platform: 307 — 5,865

8

Top 10 Web FrameWorks Desired to Work with by Respondents

React.js, Vue.js, Angular/A..., ASP.NET, jQuery, Expr..., Spr..., R..., F..., Dj...

Number of Respond...

Name of Framework
- ASP.NET
- Angula...
- Django
- Express
- Flask
- React.js
- Ruby o...
- Spring
- Vue.js
- jQuery

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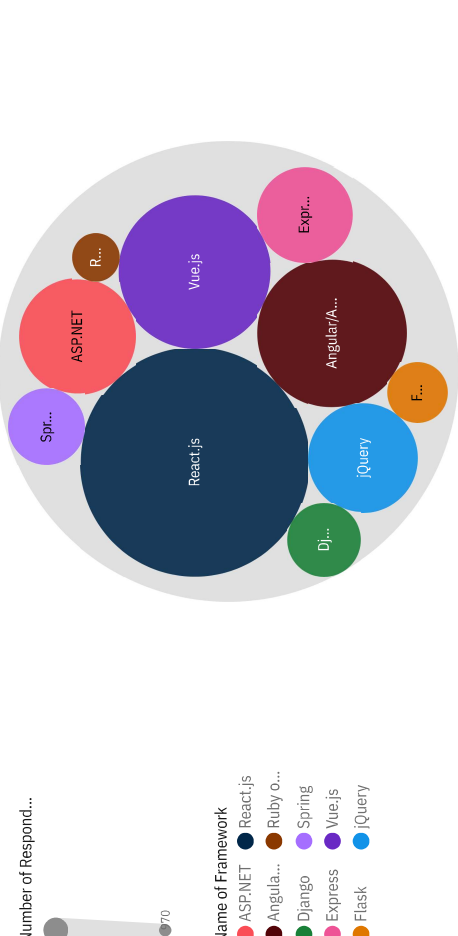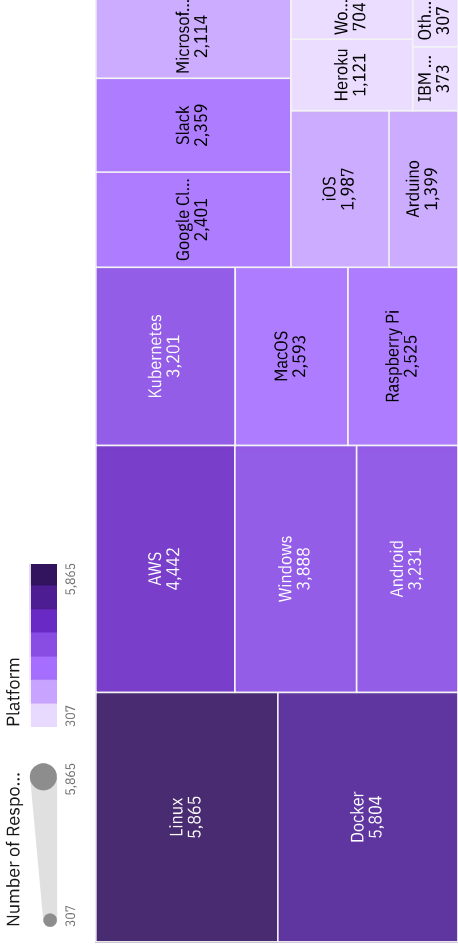
Demographics

Respondents by Country

© Mapbox © OpenStreetMap

Number of Respo...

1 — 3,127

9

Respondents by Gender

Woman | 6.5%

Man | 93.5%
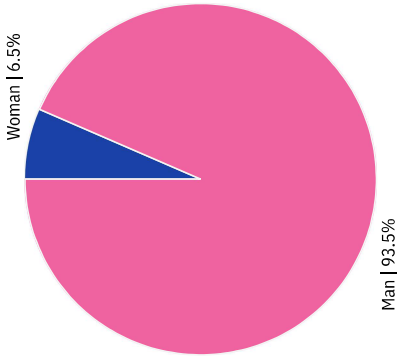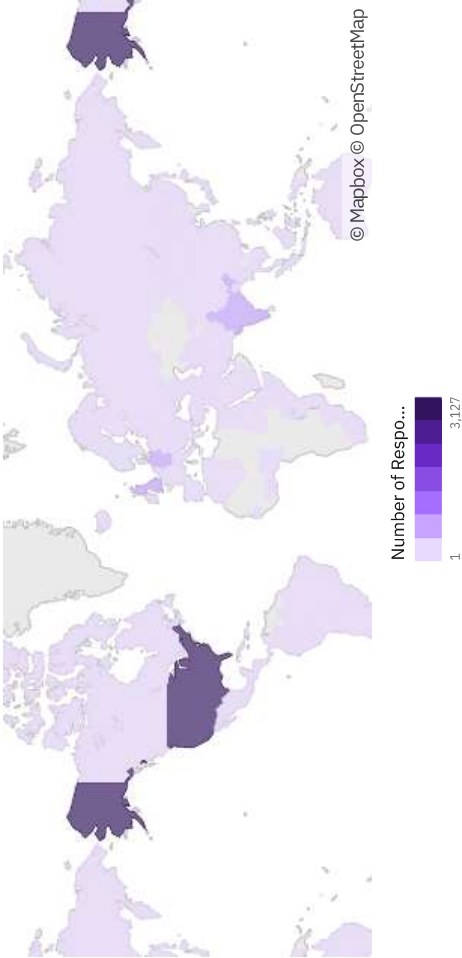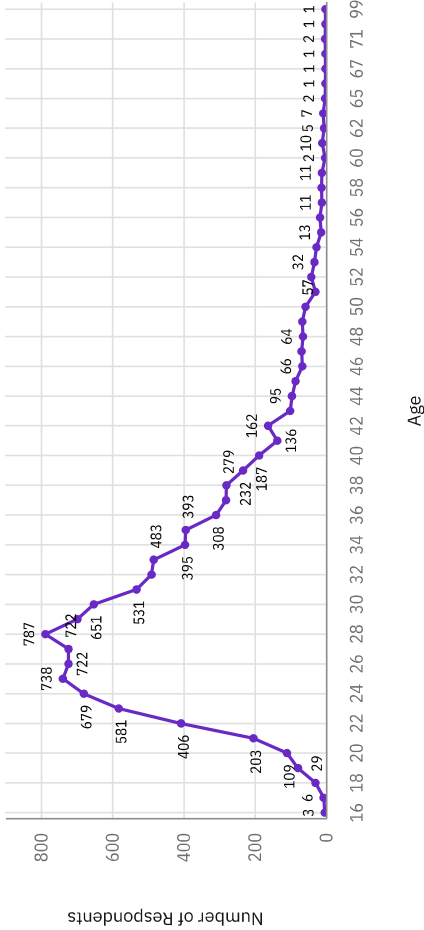
Respondents by EdLevel and Gender

Formal Education Level
- Associate degree
- Master's degree (MA, MS, M.Eng....
- Professional degree (JD, MD, etc.)
- Bachelor's degree (BA, BS, B.Eng....
- Other doctoral degree (Ph.D, Ed.D...
- Secondary school (e.g. American...
- I never completed any formal edu...
- Primary/elementary school
- Some college/university study wit...

Gender

Man: 5,341 | 2,484 | 482 | 1,280
Woman

Number of Respondents

11

Respondent by Age

Number of Respondents

Age

10