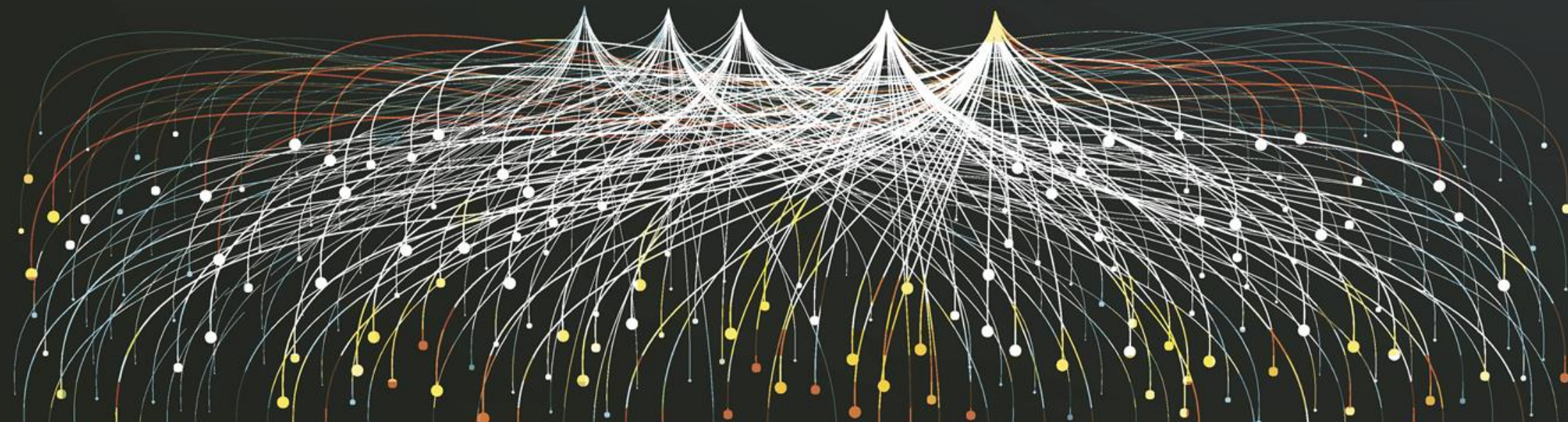




Group 1





JOB DATA ANALYSIS



A complex network graph visualization is displayed against a dark background. The graph consists of numerous nodes, represented by small colored circles in white, yellow, orange, and blue. These nodes are interconnected by a dense web of thin, curved lines in white, yellow, orange, and blue. The lines radiate from a central area, creating a symmetrical, fan-like pattern that expands outwards. The overall effect is one of a highly interconnected and dynamic network structure.

Amazon | Google | Facebook

Dataset Overview

Job postings of Google, Amazon and Facebook



<https://www.amazon.jobs/en>



<https://careers.google.com/>



<https://www.facebook.com/careers/>

Methodology Overview



DATA SCRAPPING

- BeautifulSoup
- Selenium

DATA FORMATTING

- Pandas
- Re
- Numpy

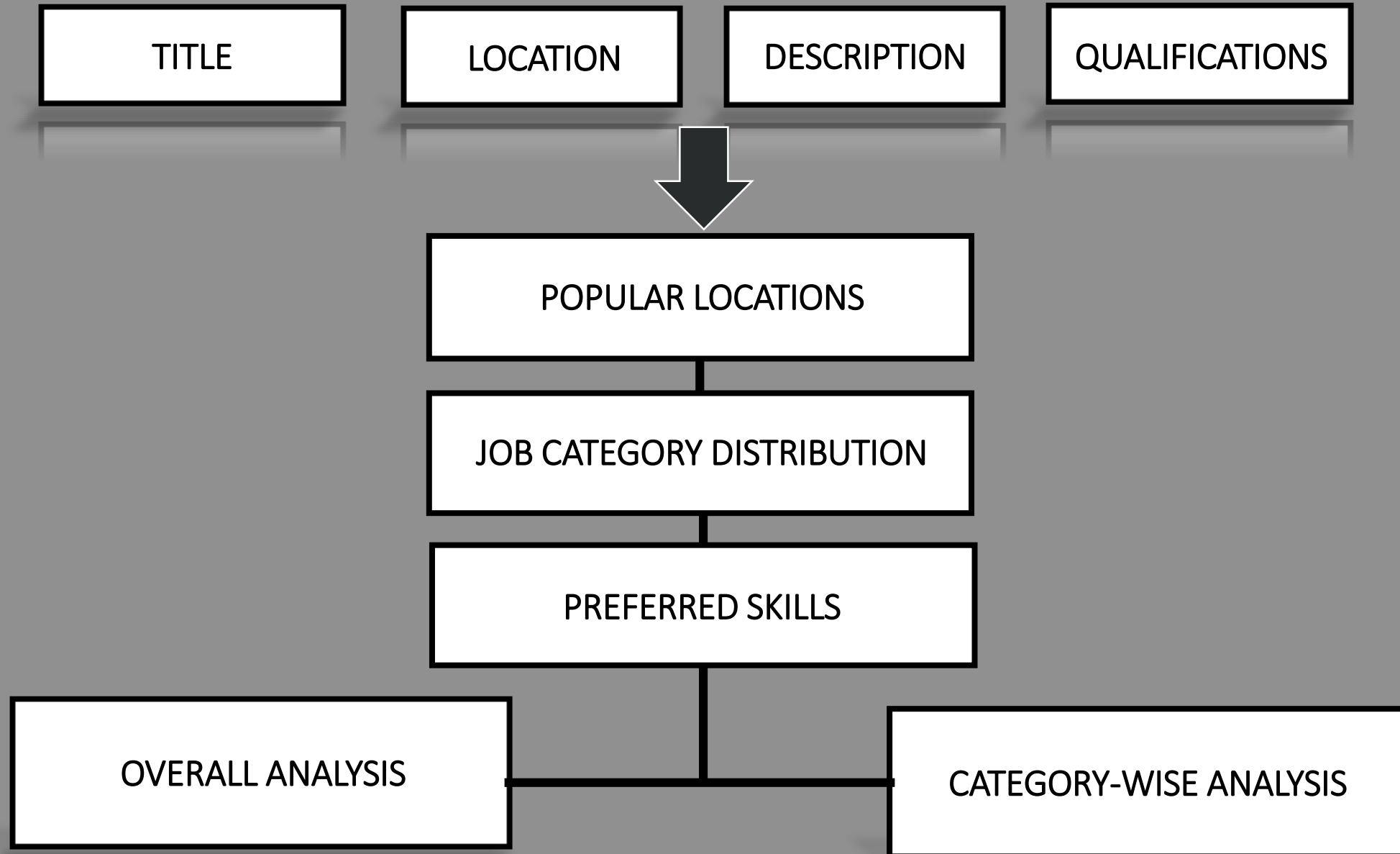
DATA ANALYSIS

- Numpy
- Pandas

VISUALIZATIONS

- Matplotlib
- Plotly
- Seaborn

Methodology Overview



Filter

Reset Filter

By Location →

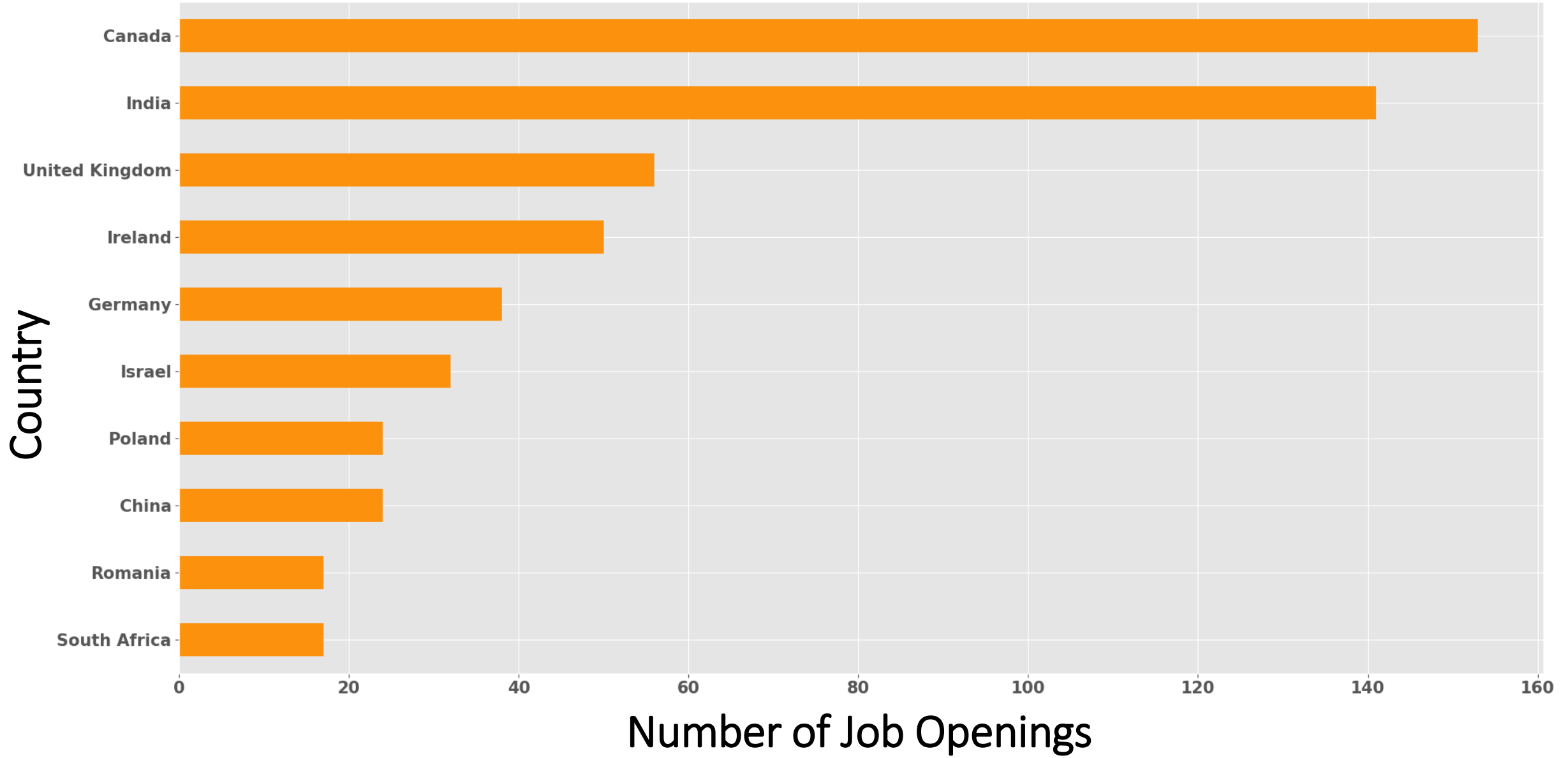
By Job Category →

By Major →

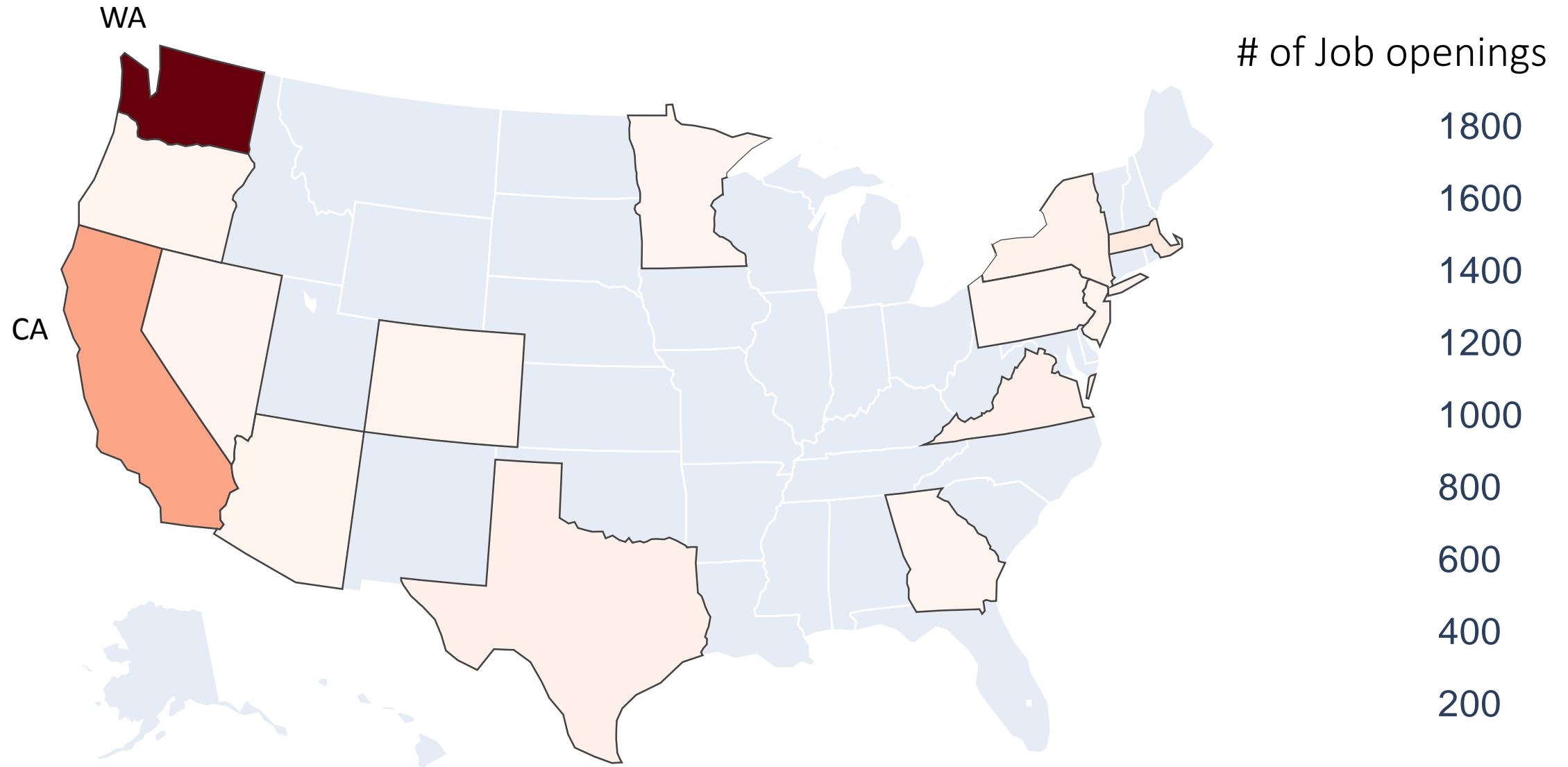
By Level of Qualification →

By Level of Experience →

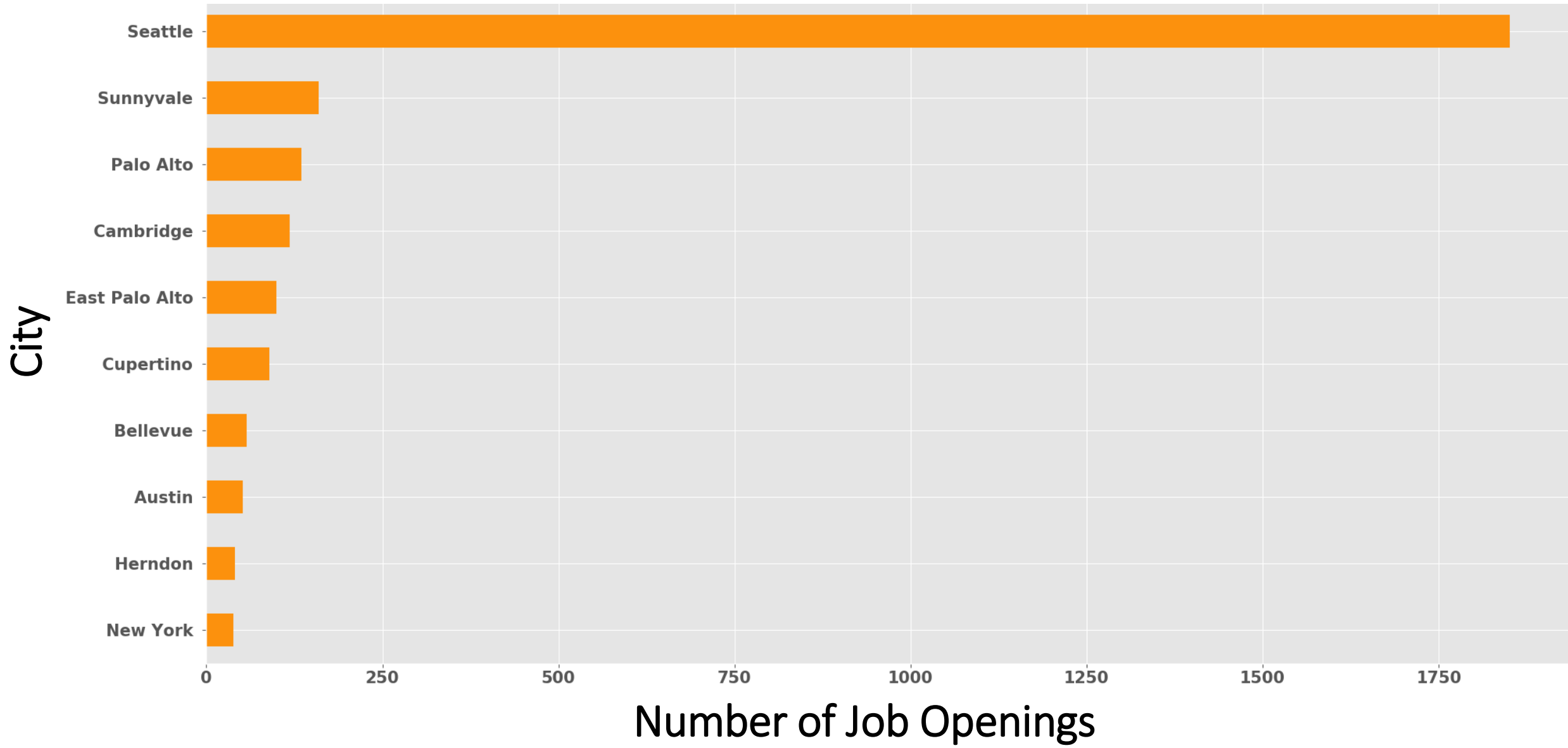
Job Locations outside USA - Amazon



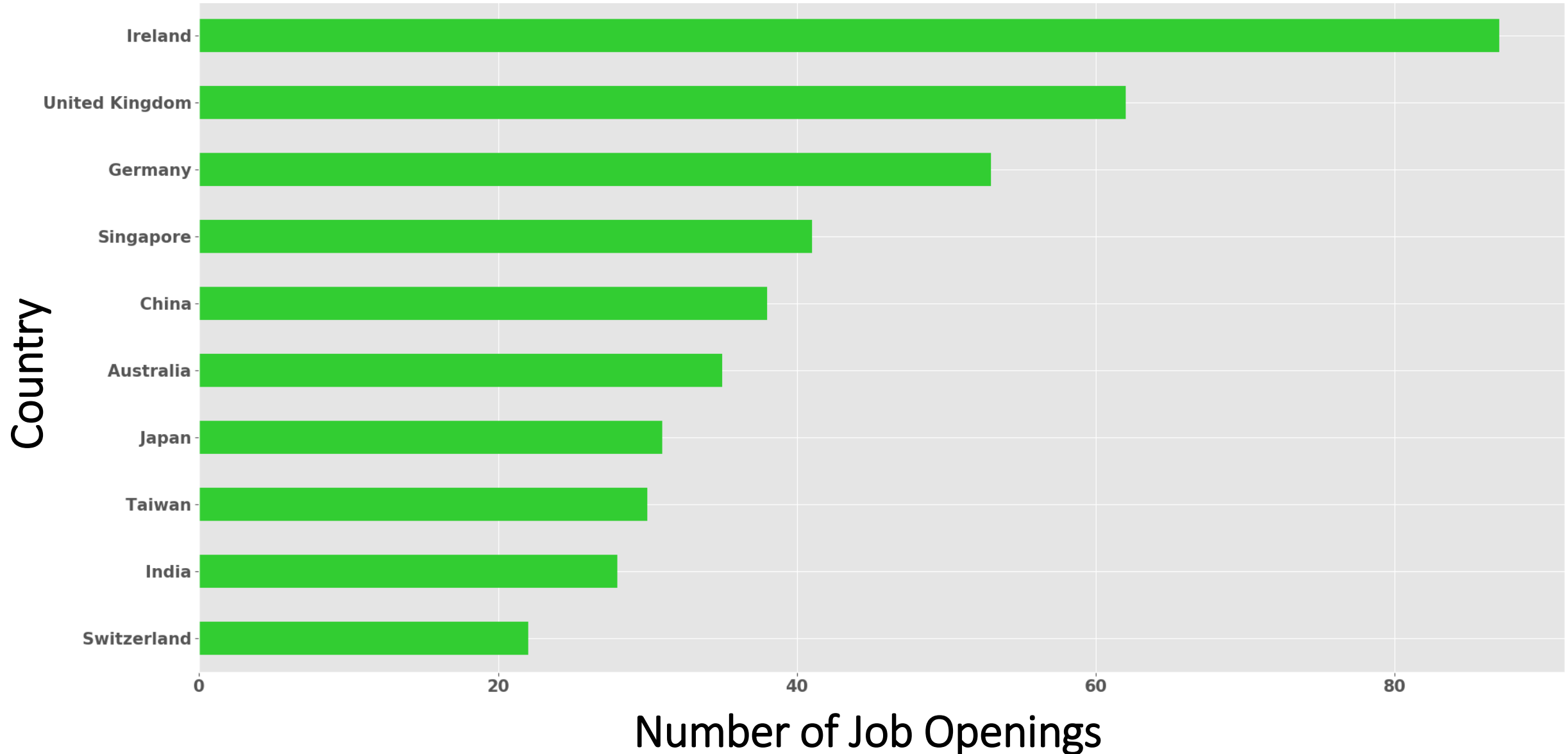
Job Locations all over USA - Amazon



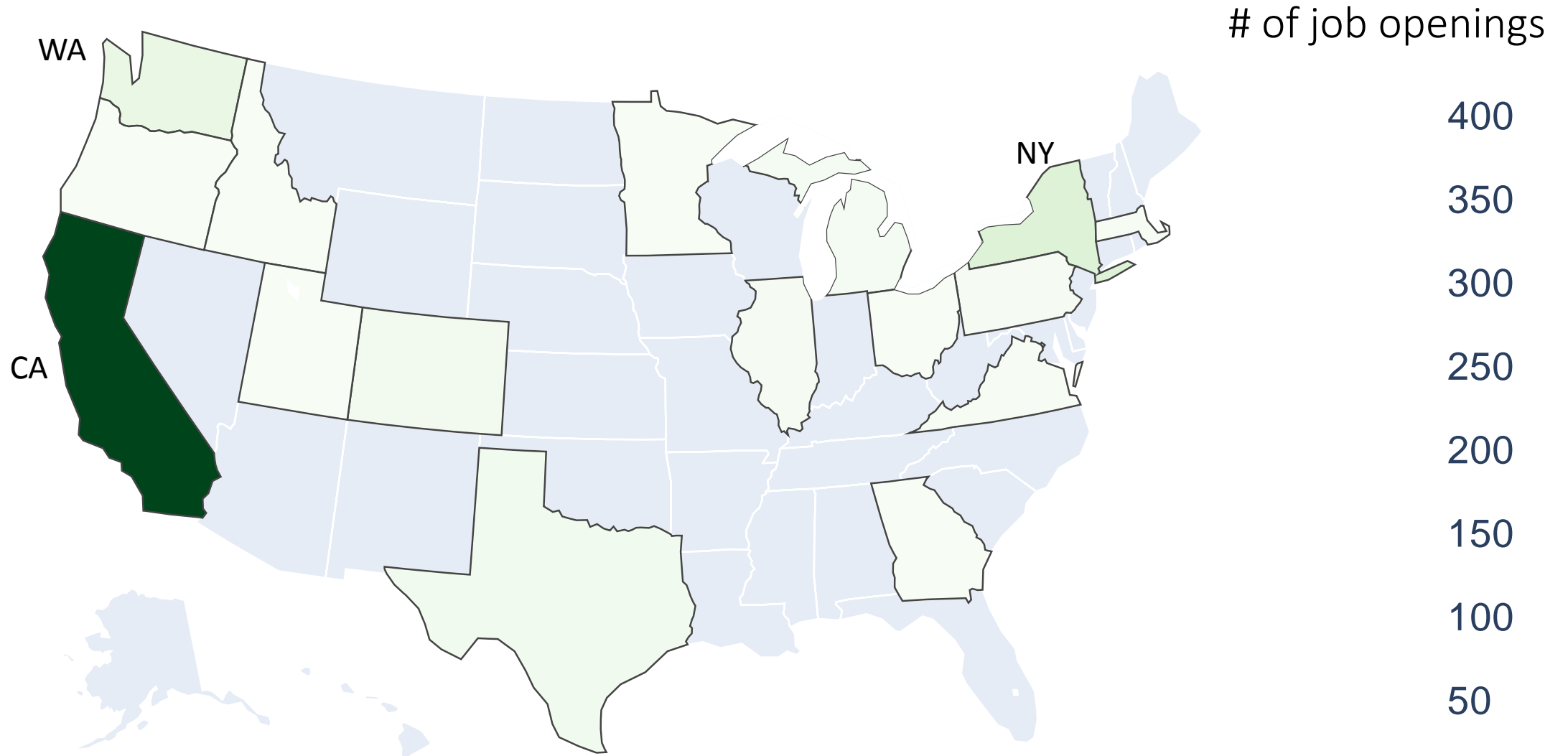
Popular USA cities - Amazon



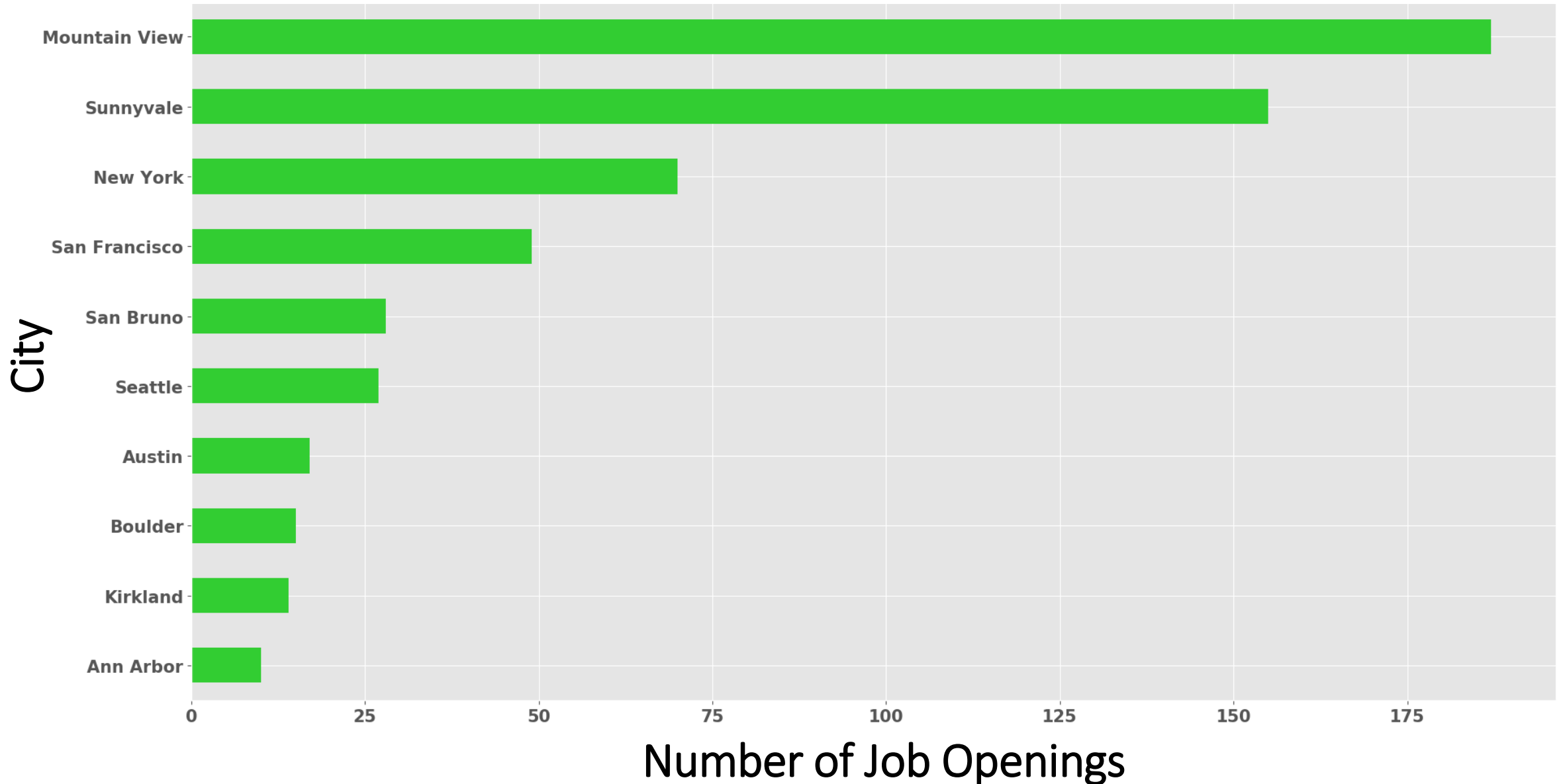
Job Locations outside USA - Google



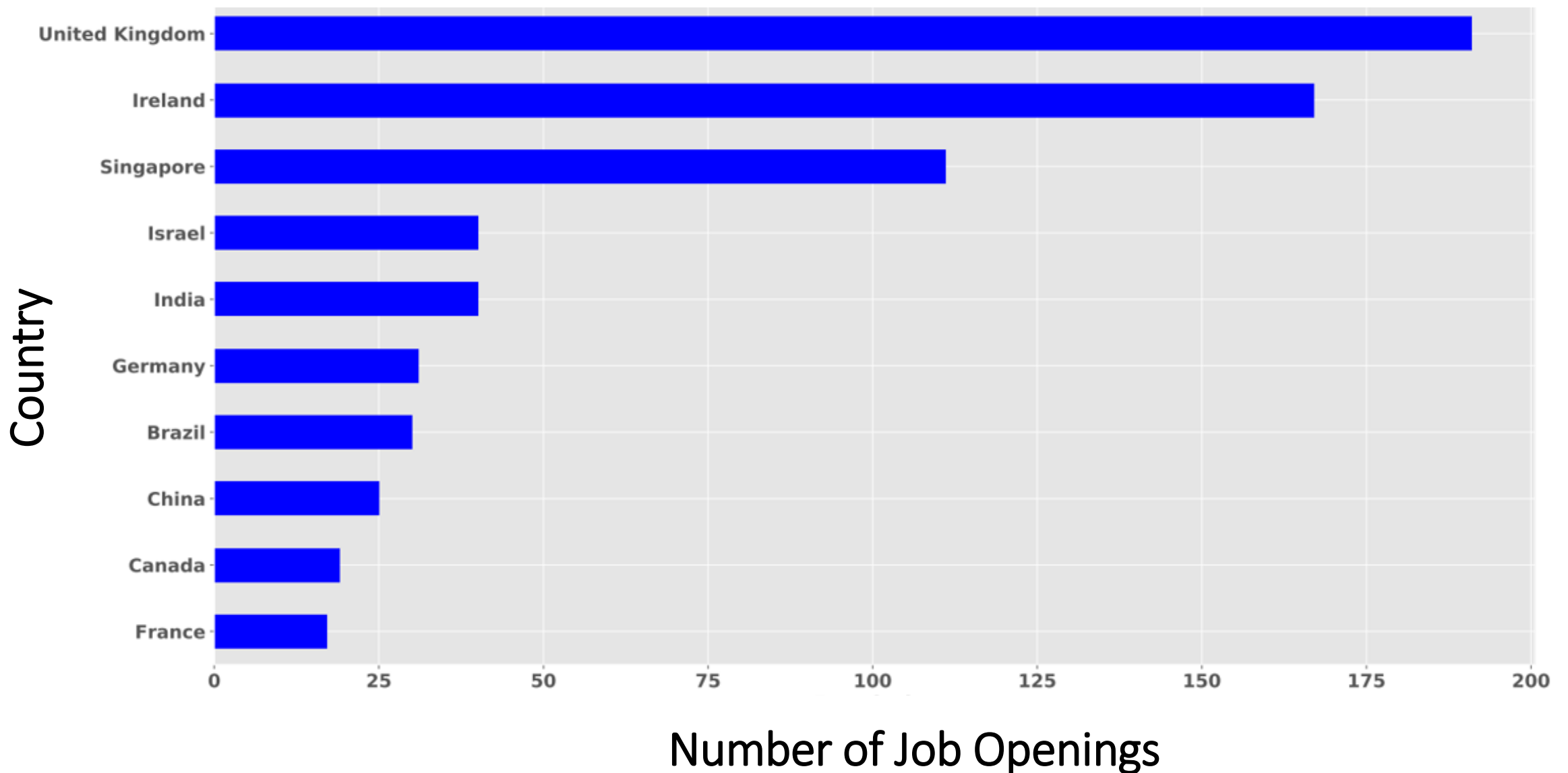
Job Locations all over USA - Google



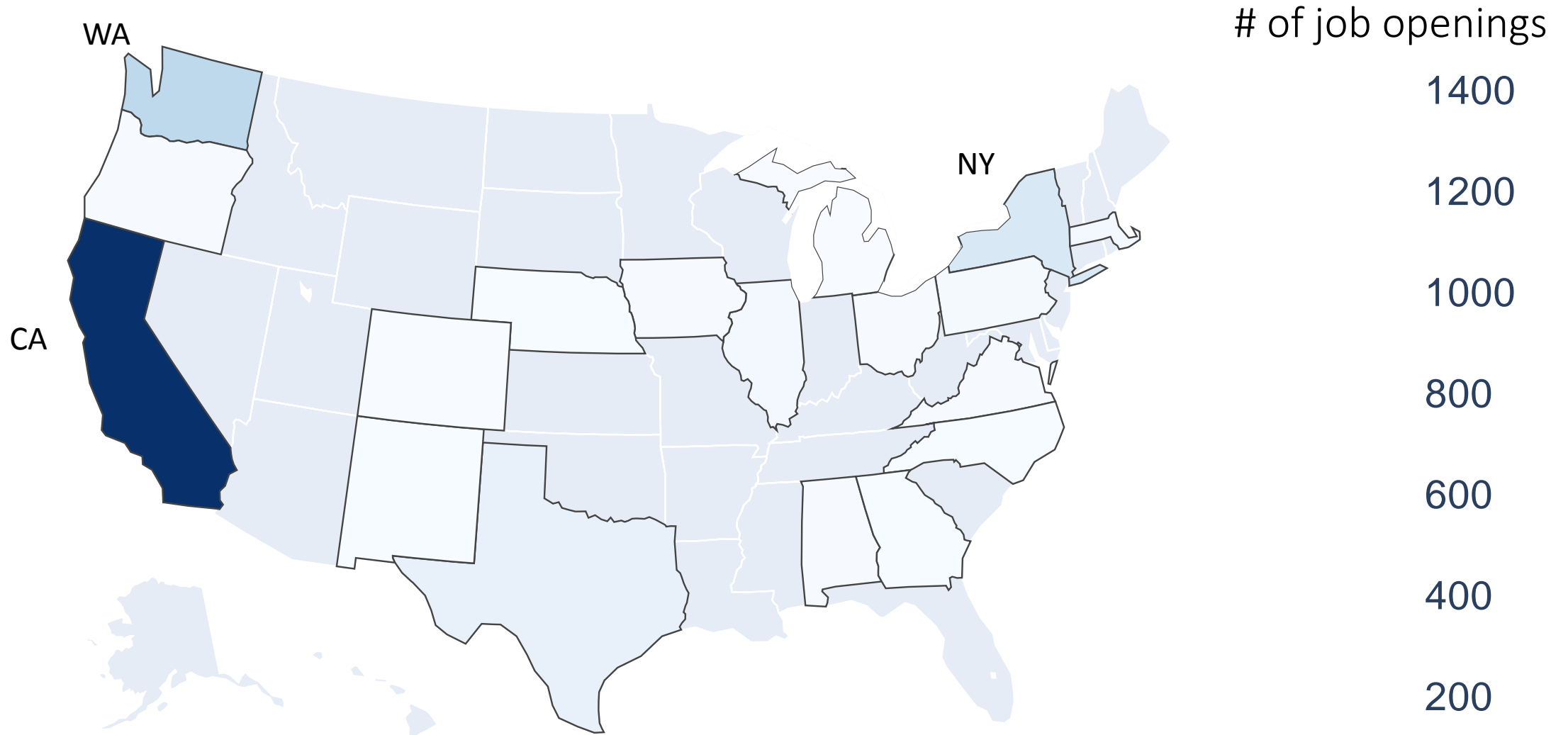
Popular USA cities - Google



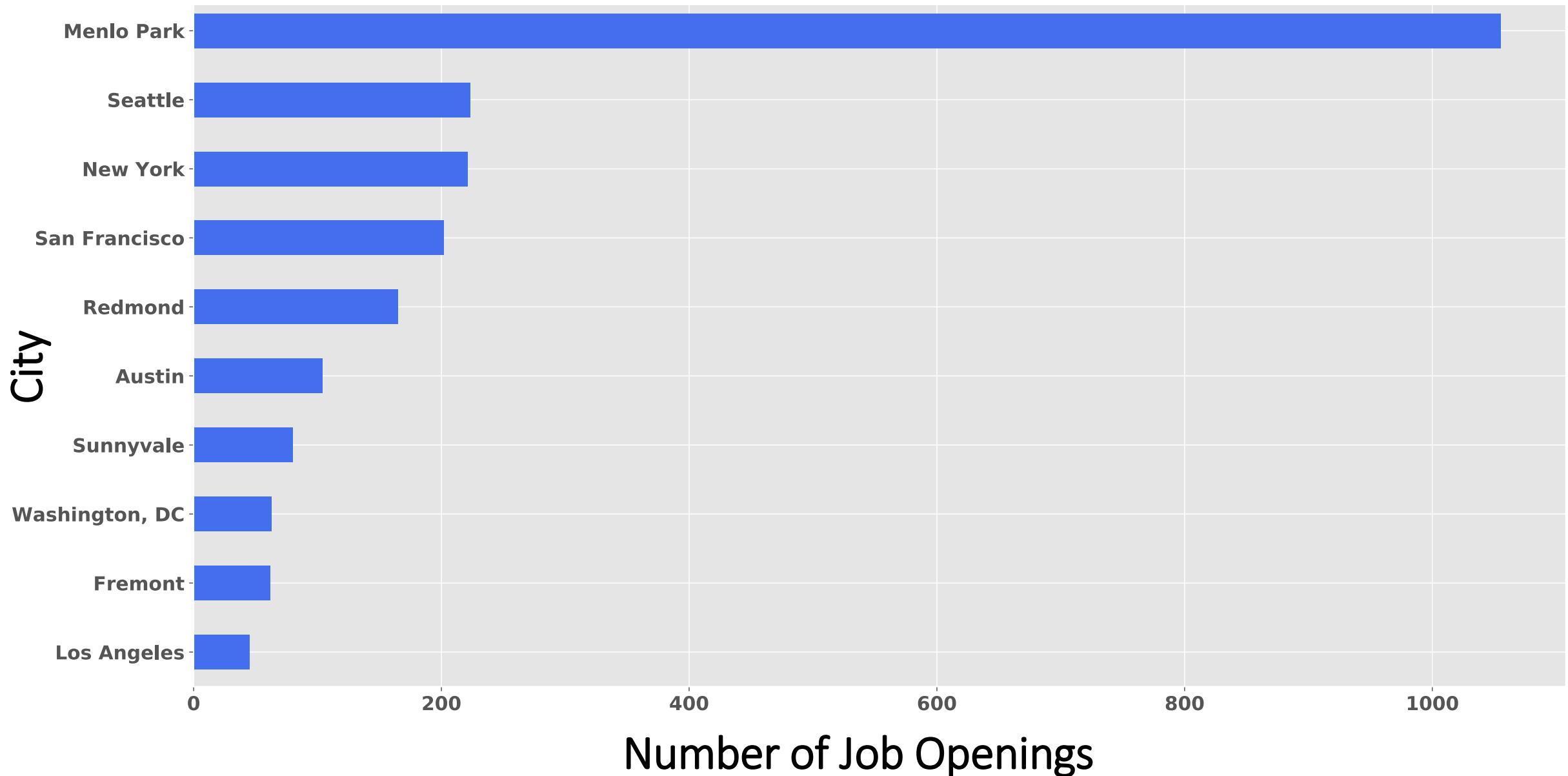
Job Locations outside USA - Facebook



Job Locations all over USA - Facebook



Popular USA cities - Facebook



Filter

Reset Filter

By Location →

By Major →

By Job Category →

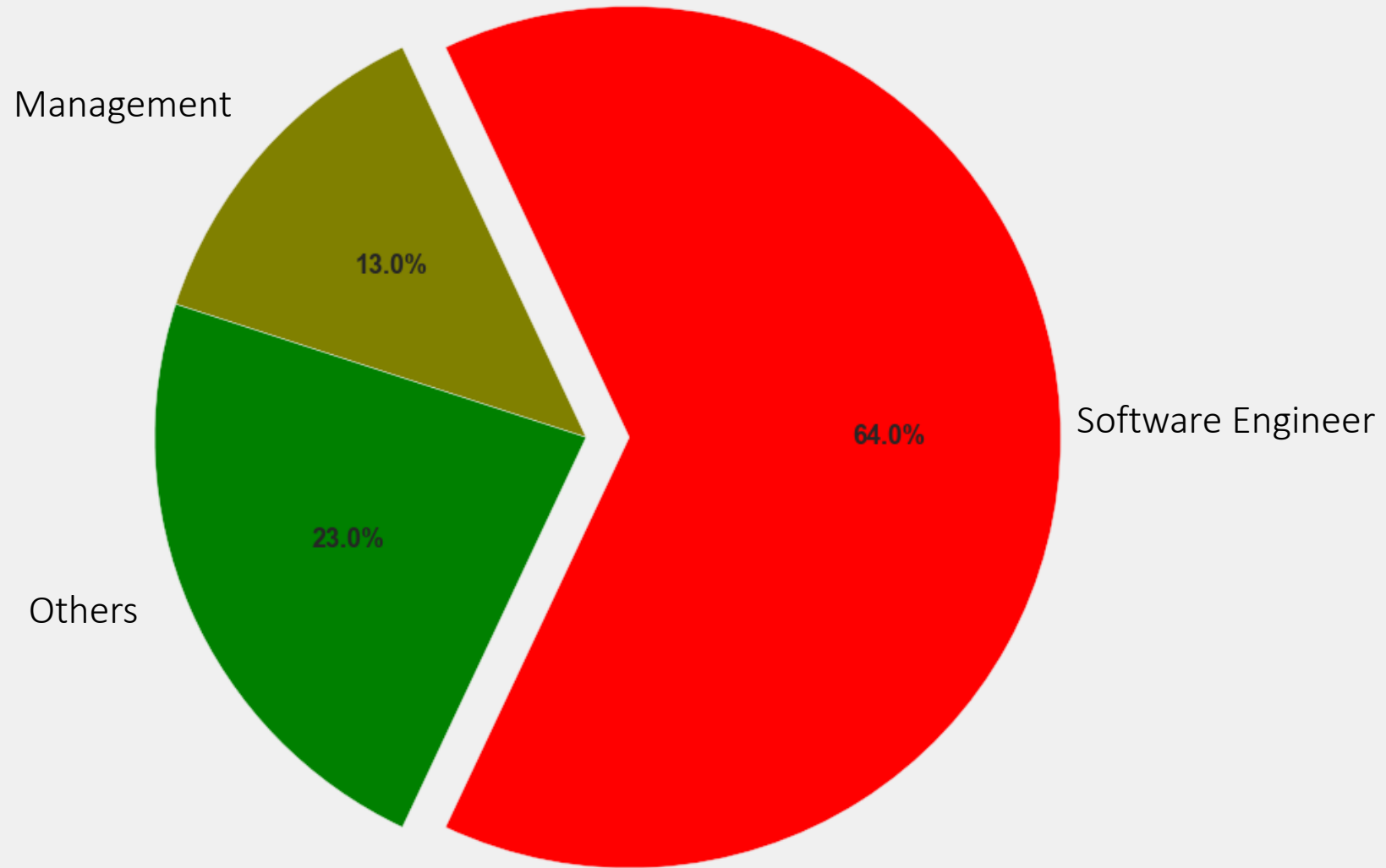
By Level of Qualification →

By Level of Experience →

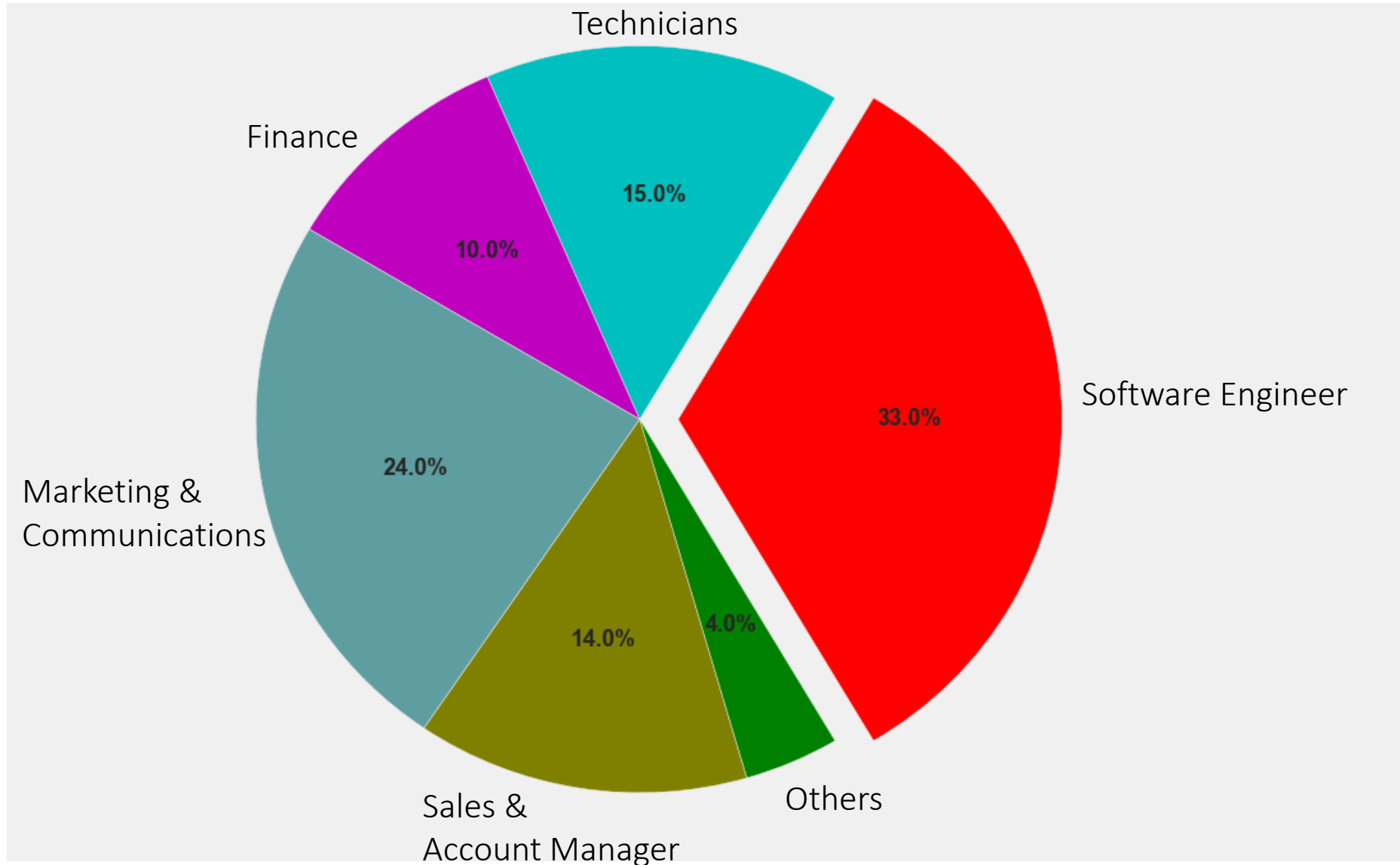
Technical Skills →

Non-Technical Skills →

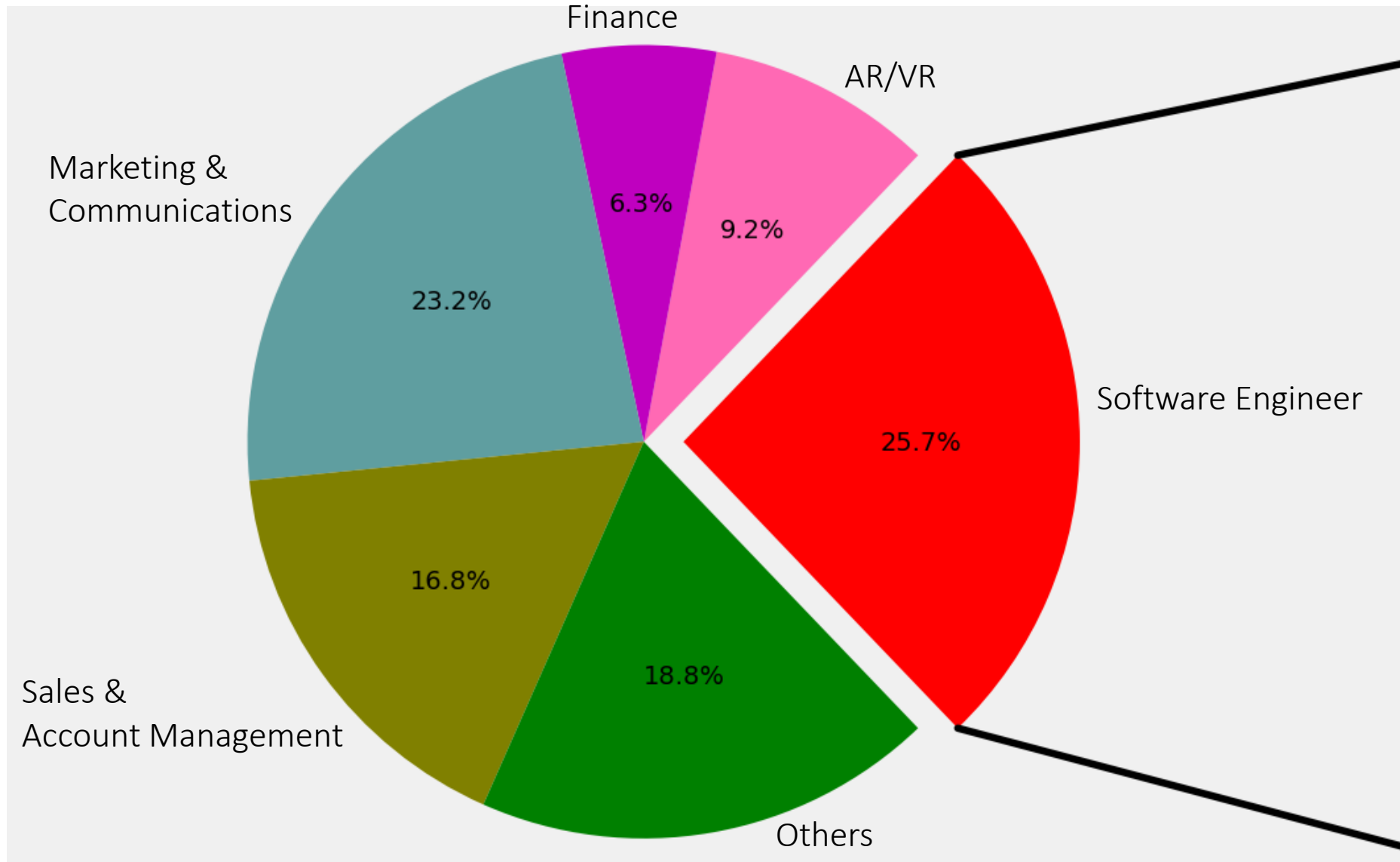
Job Category Distribution - Amazon



Job Category Distribution - Google



Job Category Distribution - Facebook



Filter

Reset Filter

By Location →

By Major →

By Job Category →

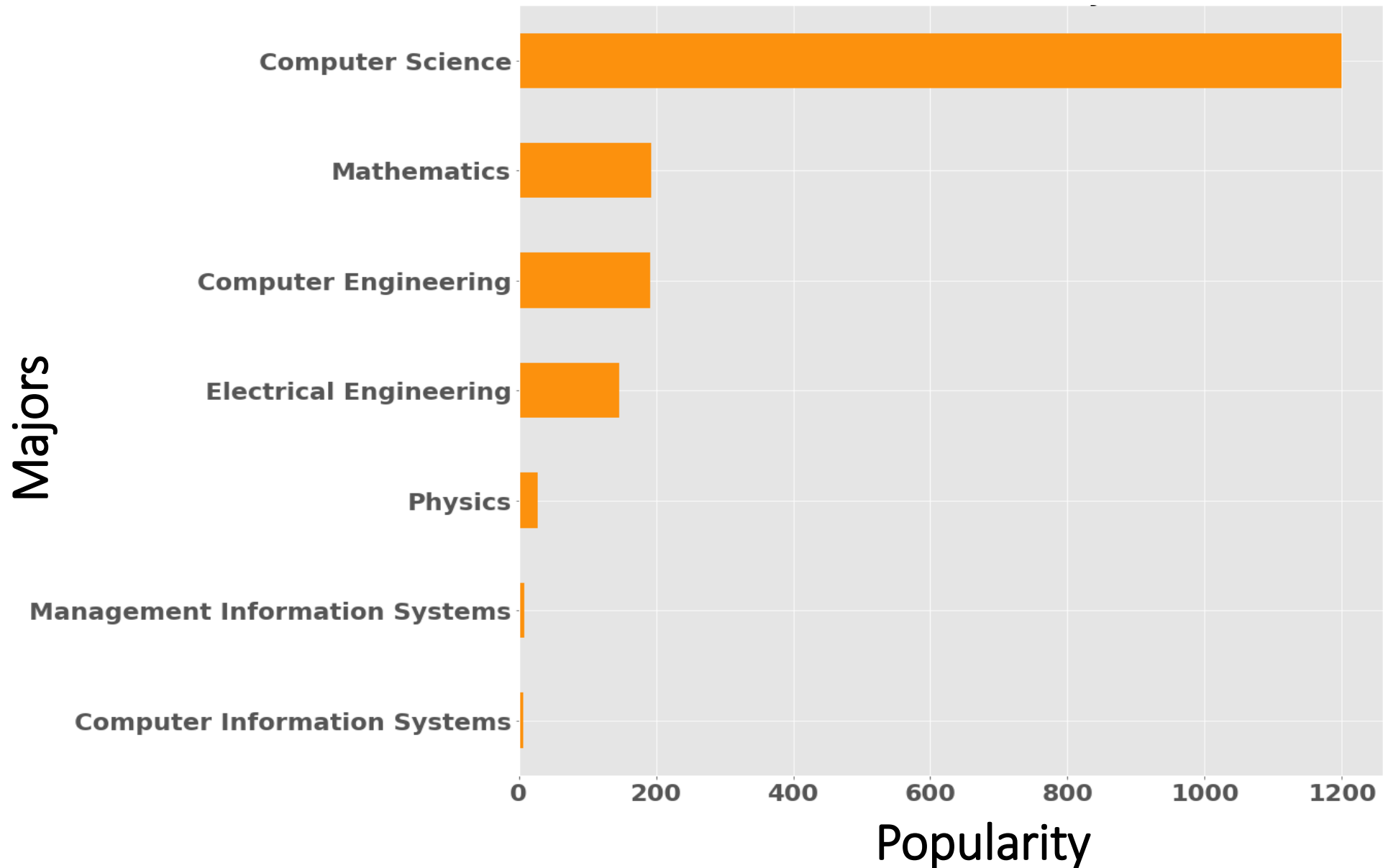
By Level of Qualification →

By Level of Experience →

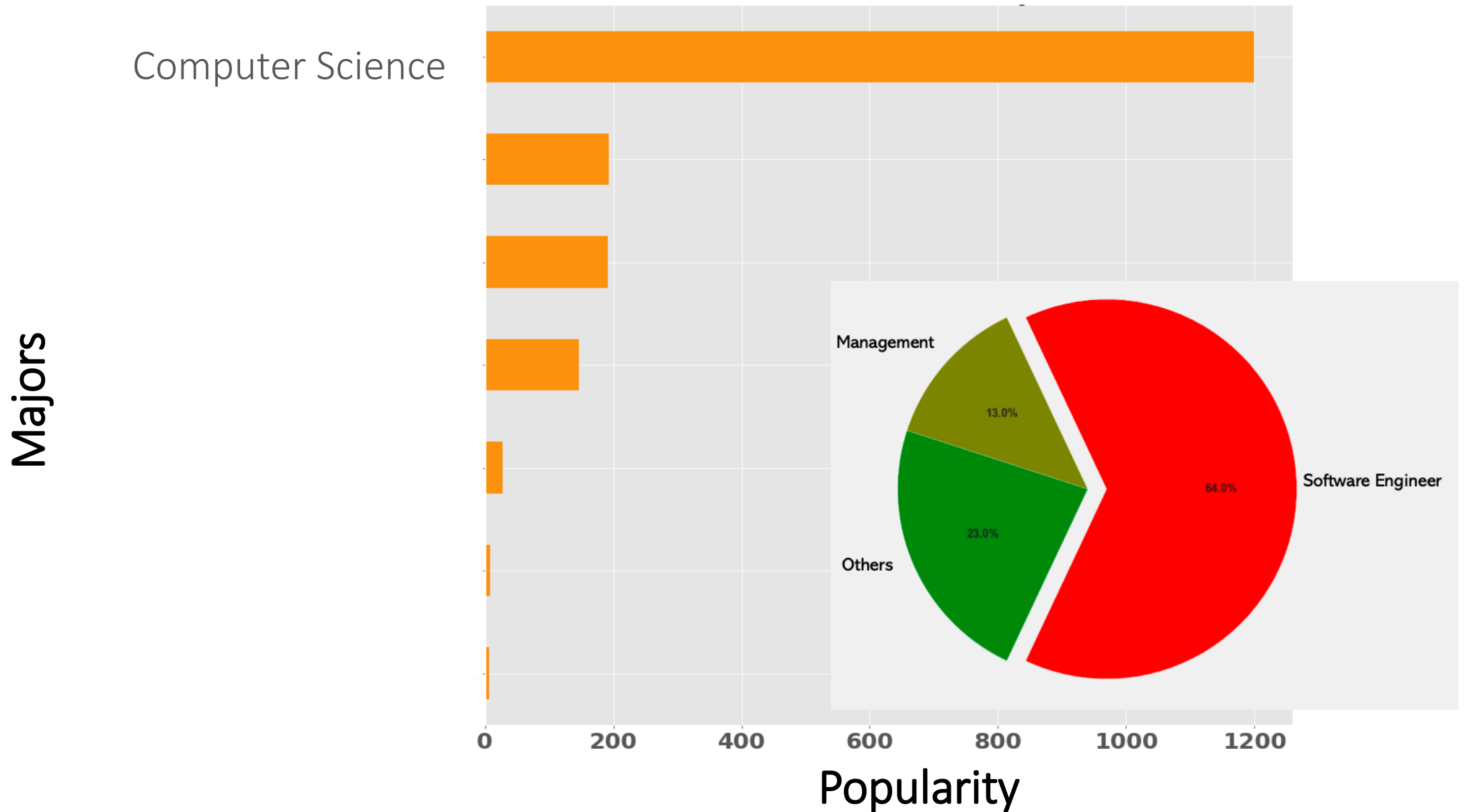
Technical Skills →

Non-Technical Skills →

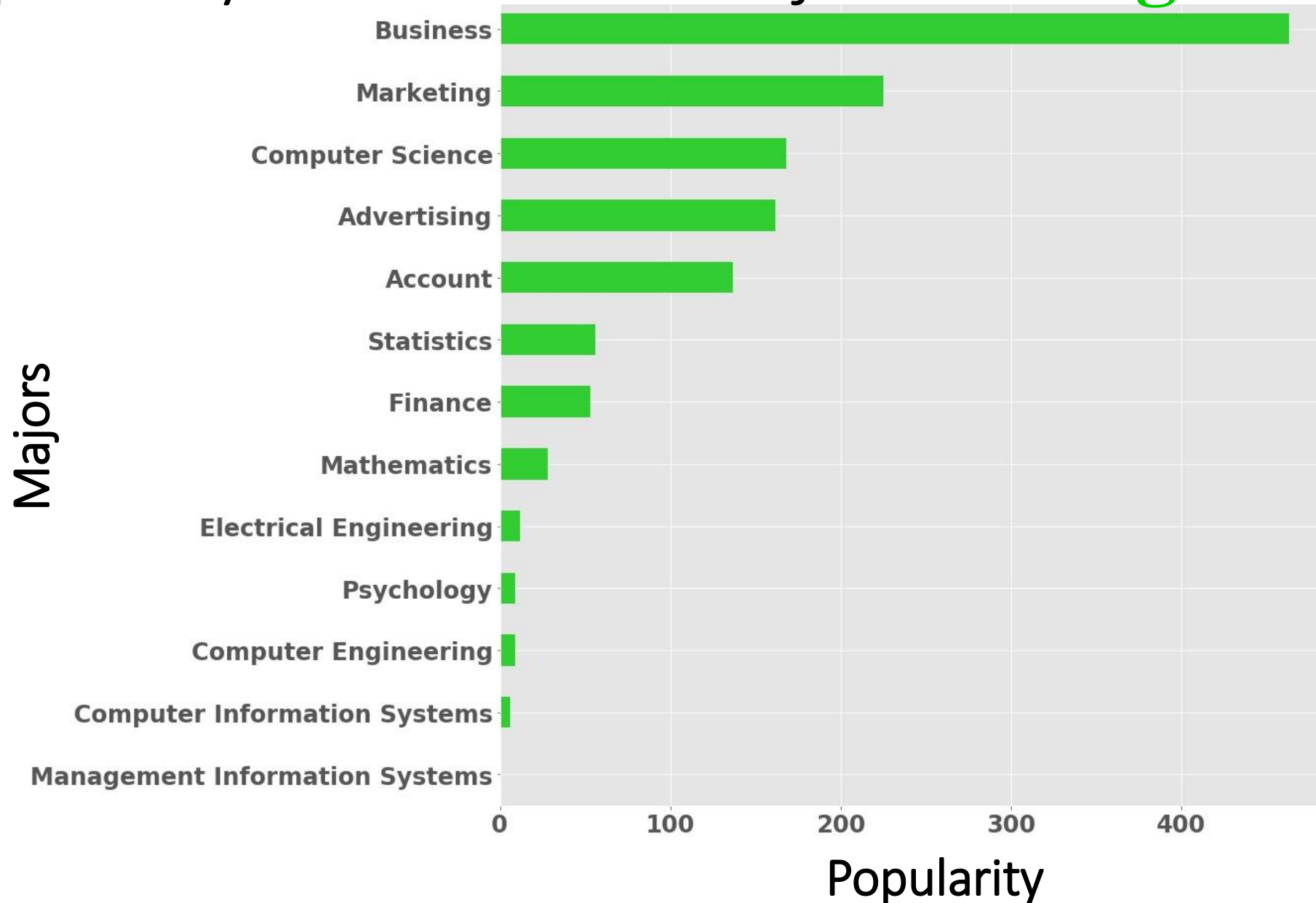
Popularity of Different Majors - Amazon



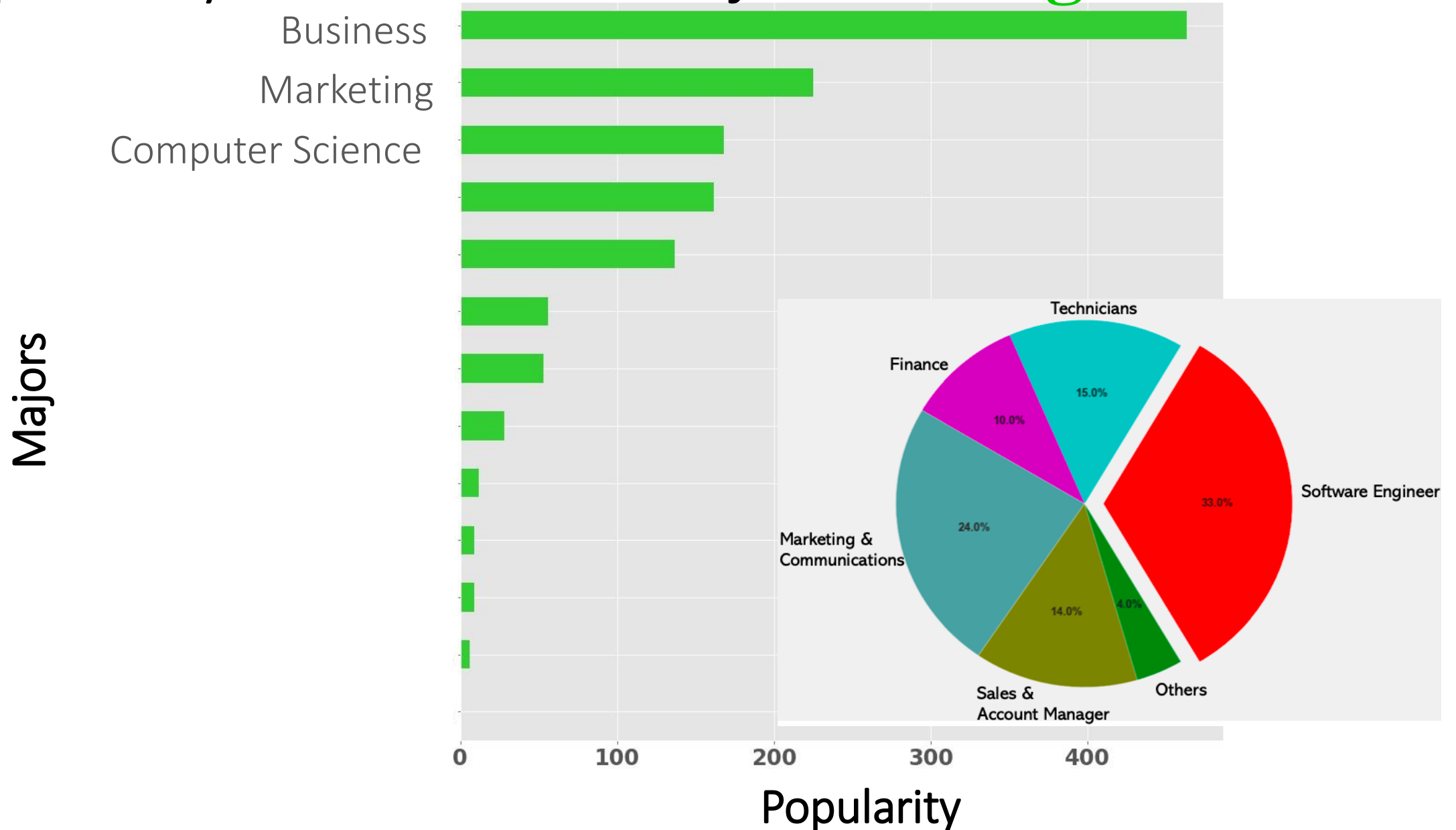
Popularity of Different Majors - Amazon



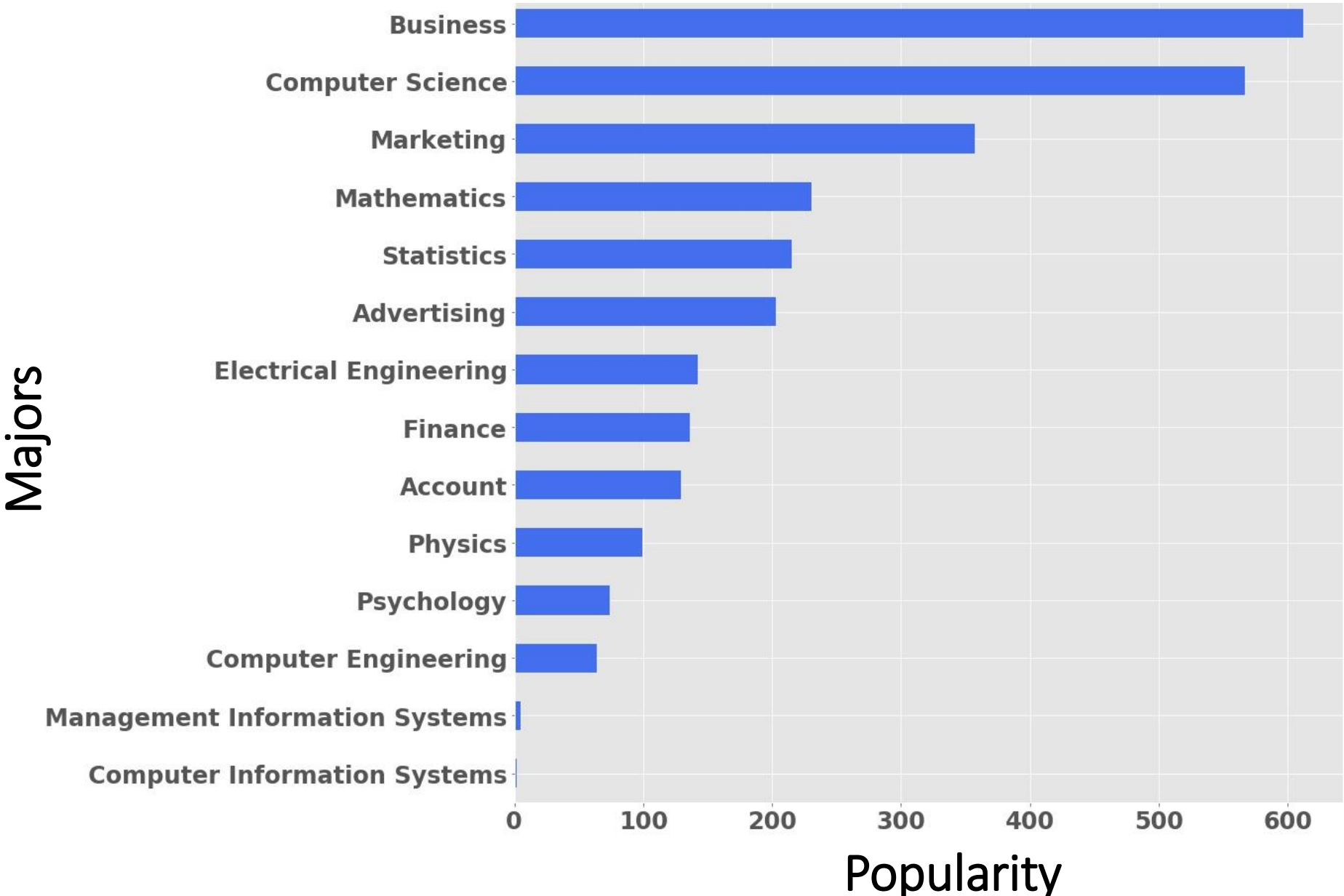
Popularity of Different Majors - Google



Popularity of Different Majors - Google

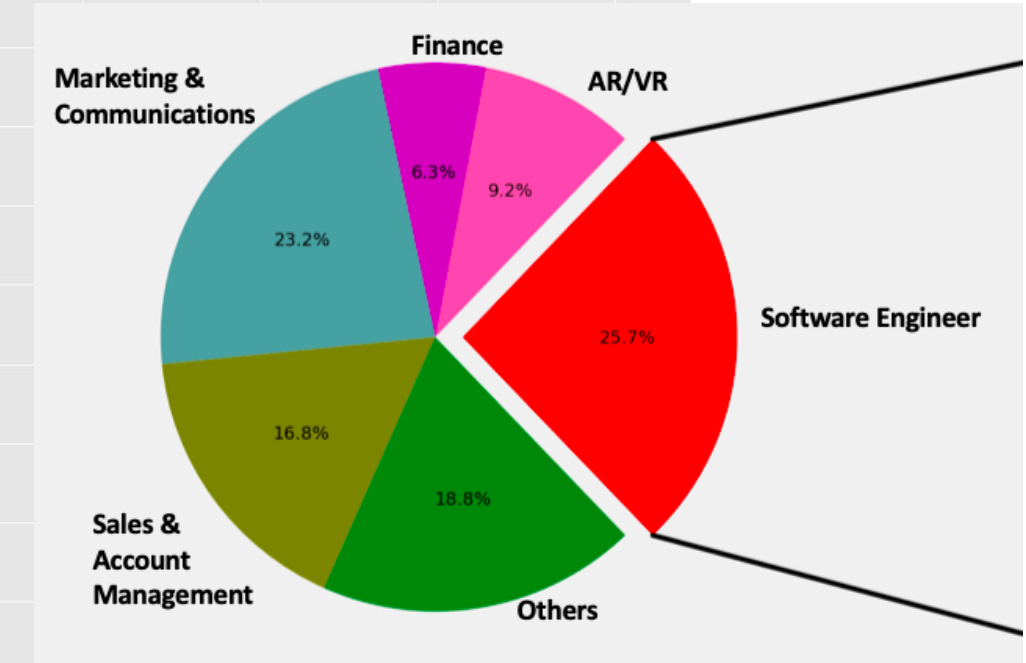
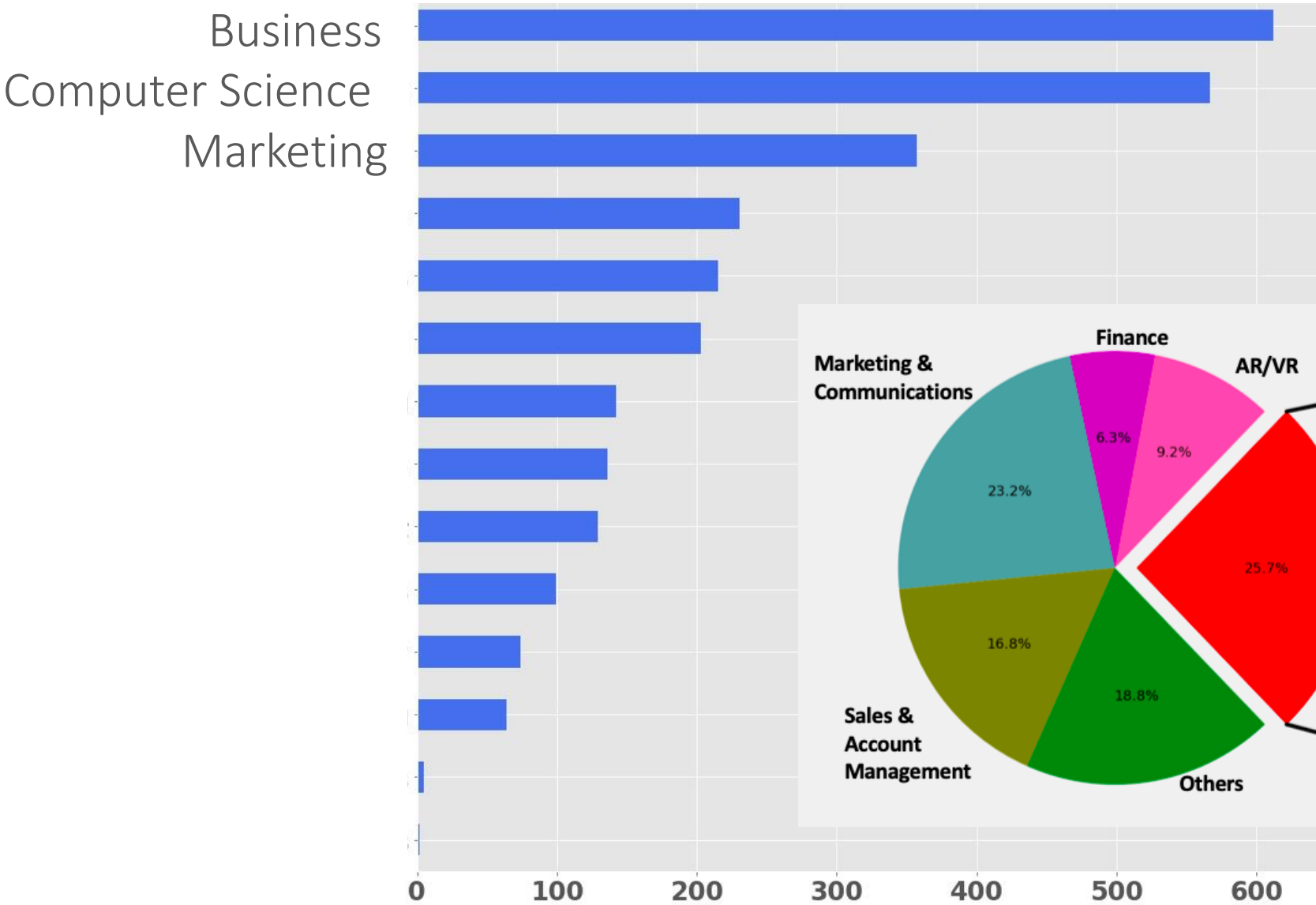


Popularity of Different Majors - Facebook



Popularity of Different Majors - Facebook

Majors



Popularity

Filter

Reset Filter

By Location →

By Major →

By Job Category →

By Level of Qualification →

By Level of Experience →

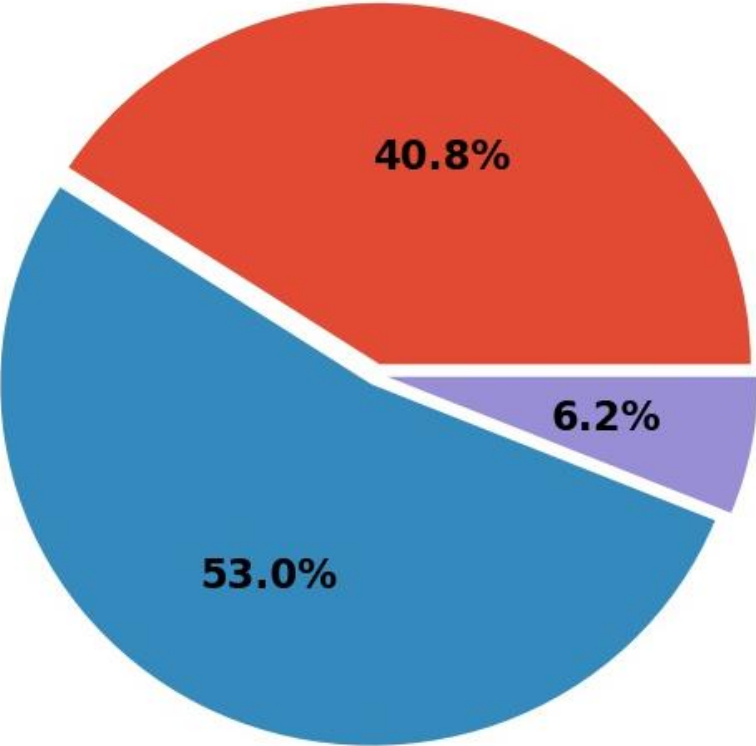
Technical Skills →

Non-Technical Skills →

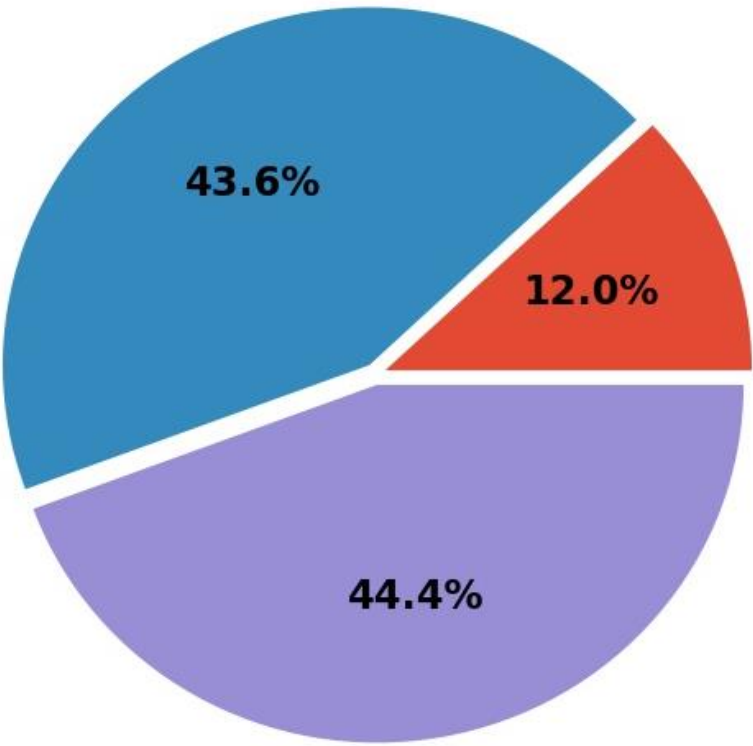
Preferred Level of Qualification



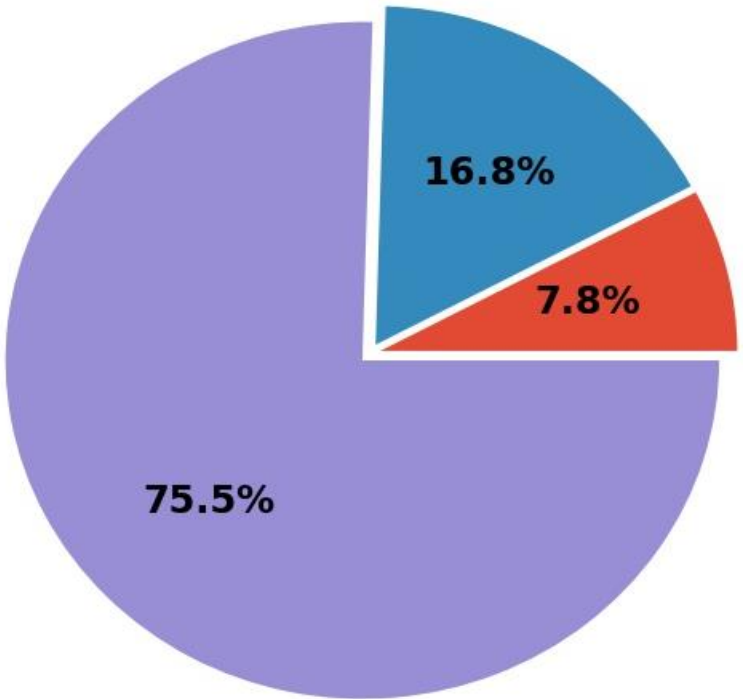
Amazon



Google



Facebook



Filter

Reset Filter

By Location →

By Major →

By Job Category →

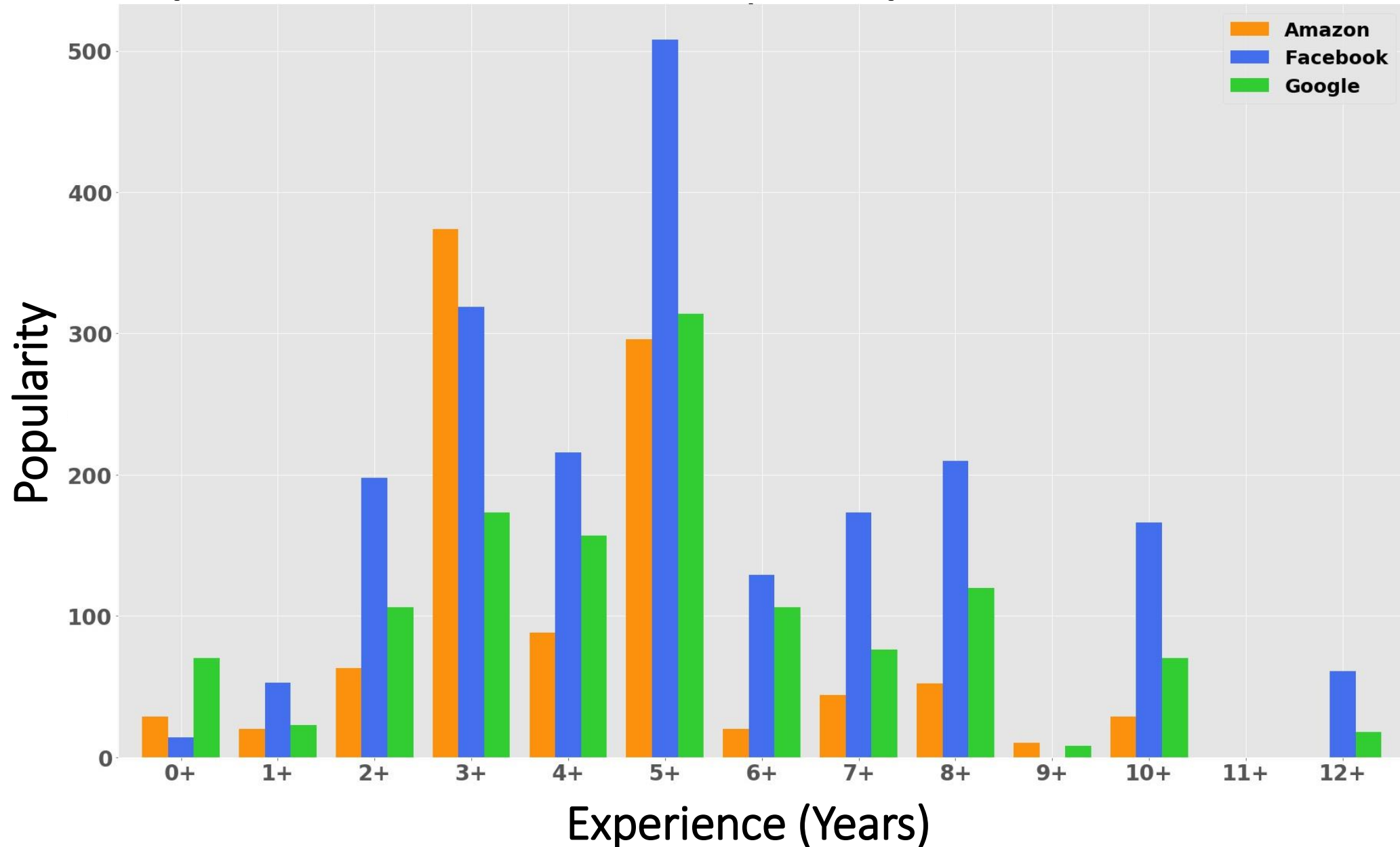
By Level of Qualification →

By Level of Experience →

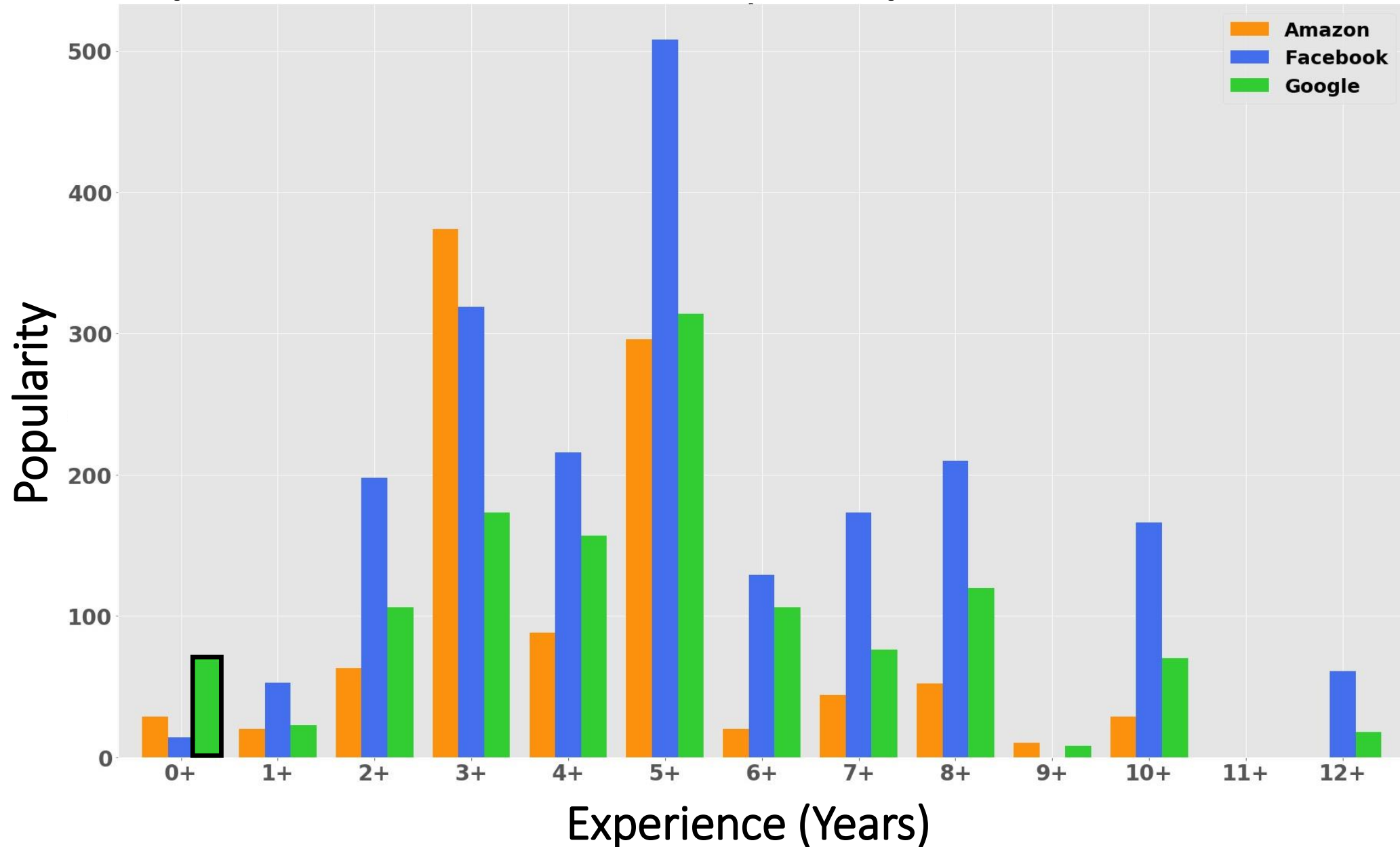
Technical Skills →

Non-Technical Skills →

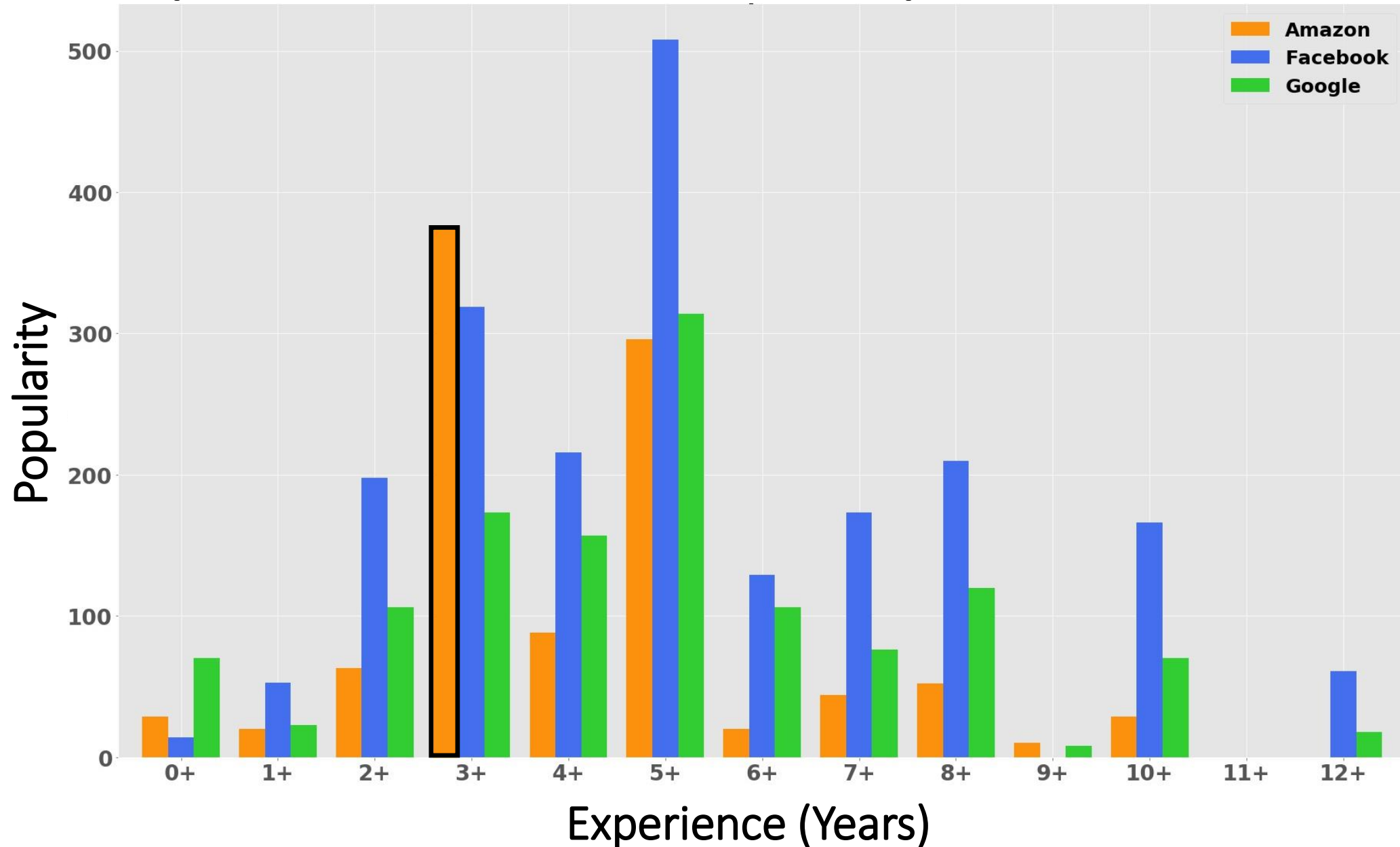
Comparison of Preferred Experience Level



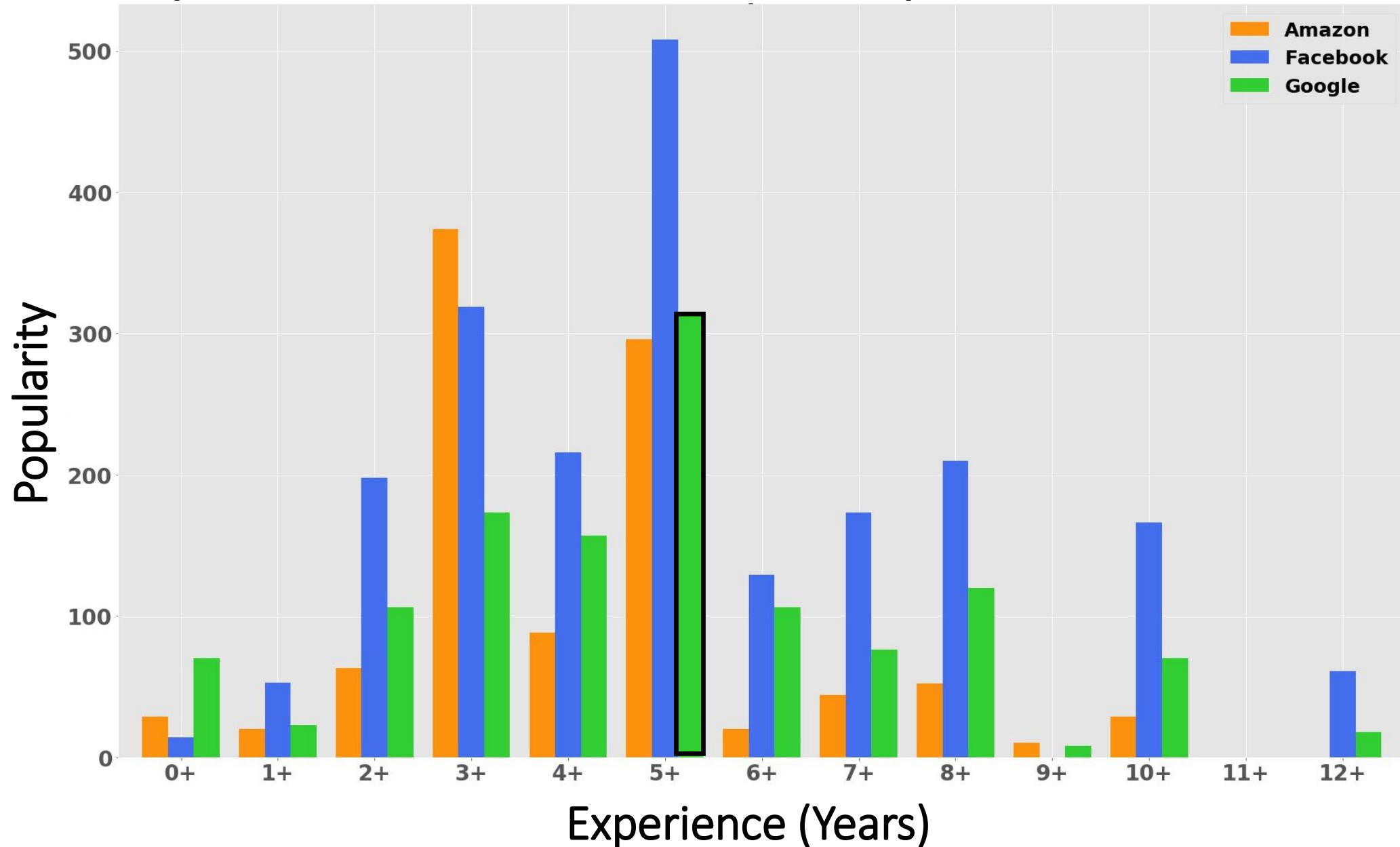
Comparison of Preferred Experience Level



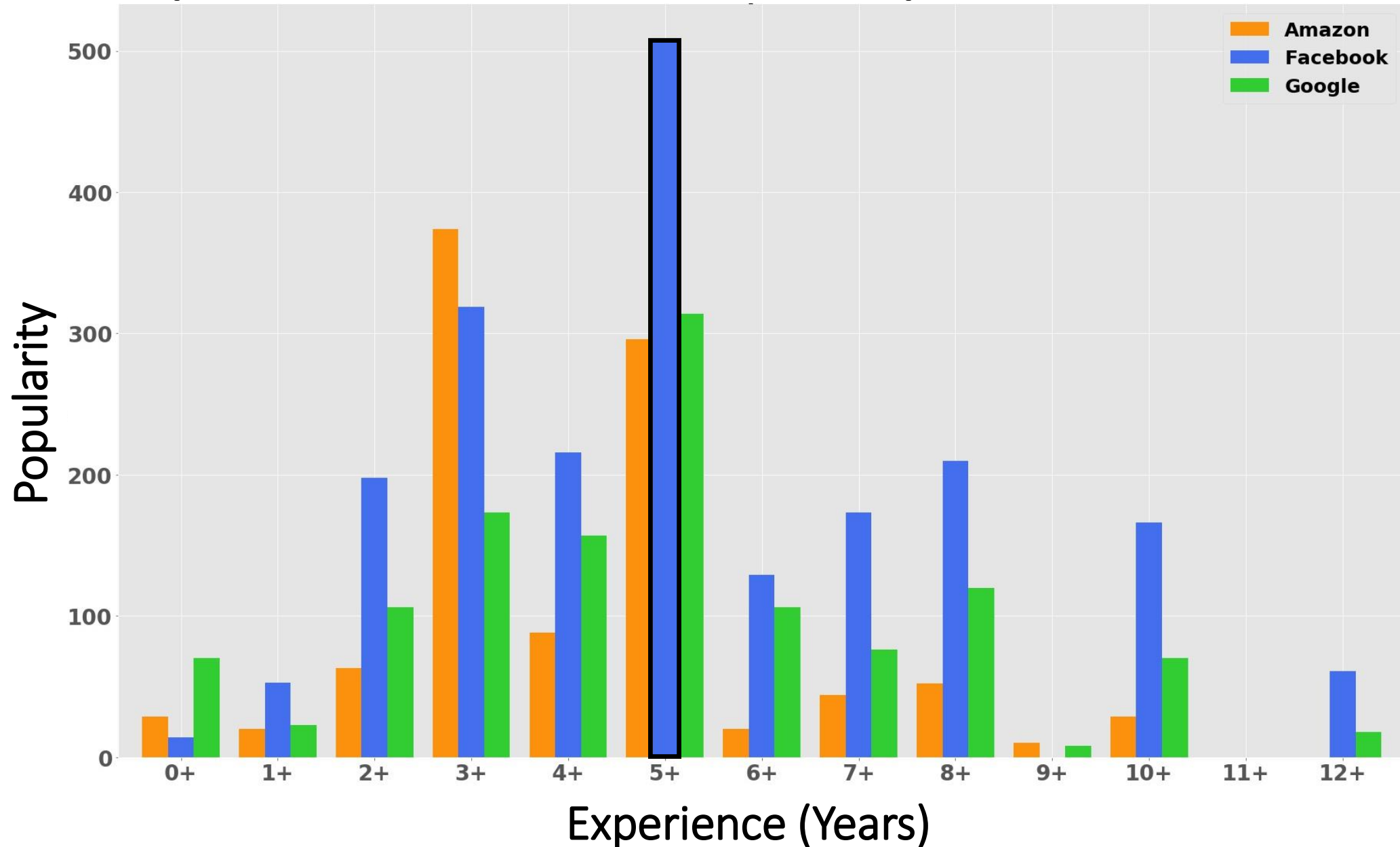
Comparison of Preferred Experience Level



Comparison of Preferred Experience Level



Comparison of Preferred Experience Level



Filter

Reset Filter

By Location →

By Major →

By Job Category →

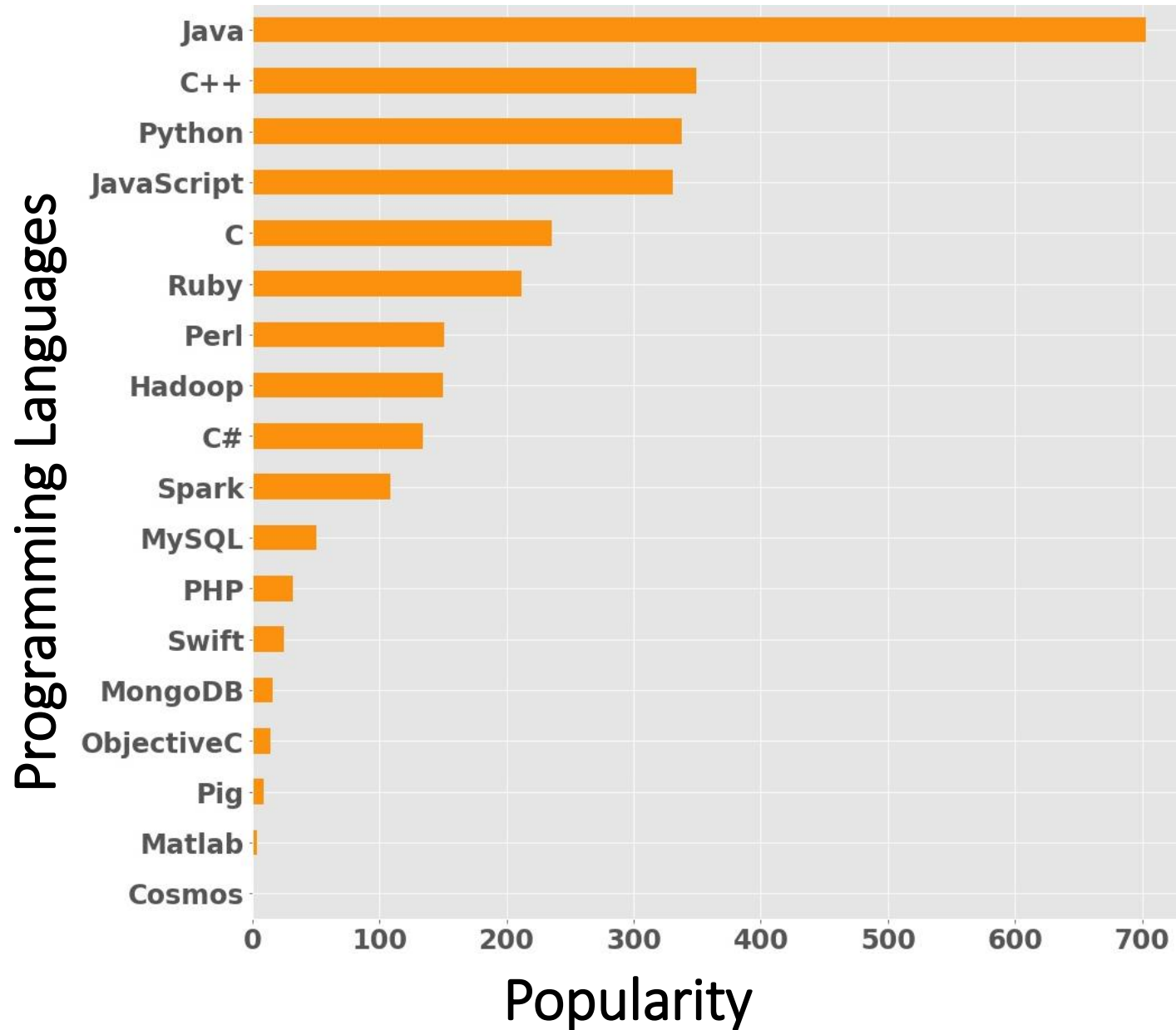
By Level of Qualification →

By Level of Experience →

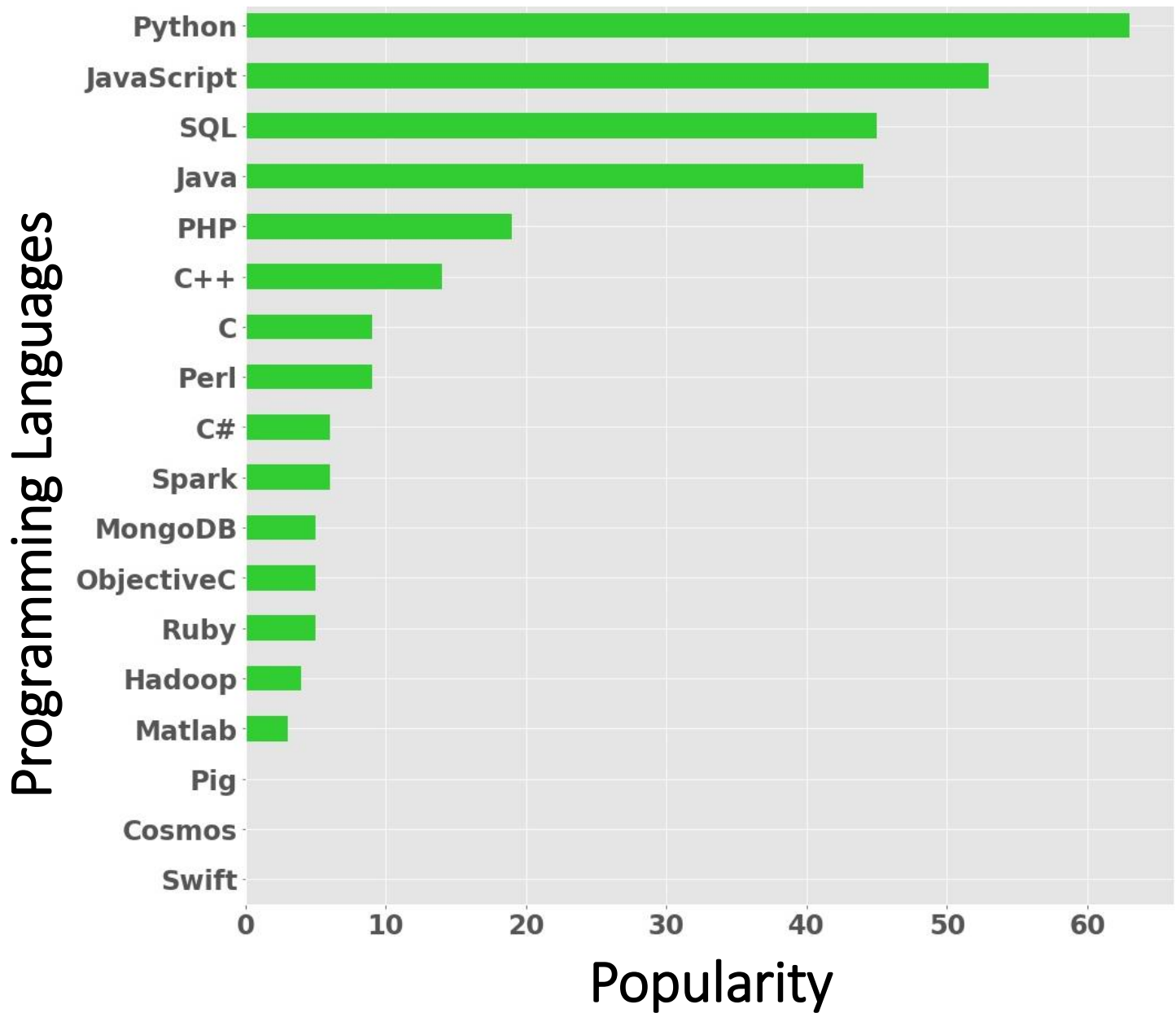
Technical Skills →

Non-Technical Skills →

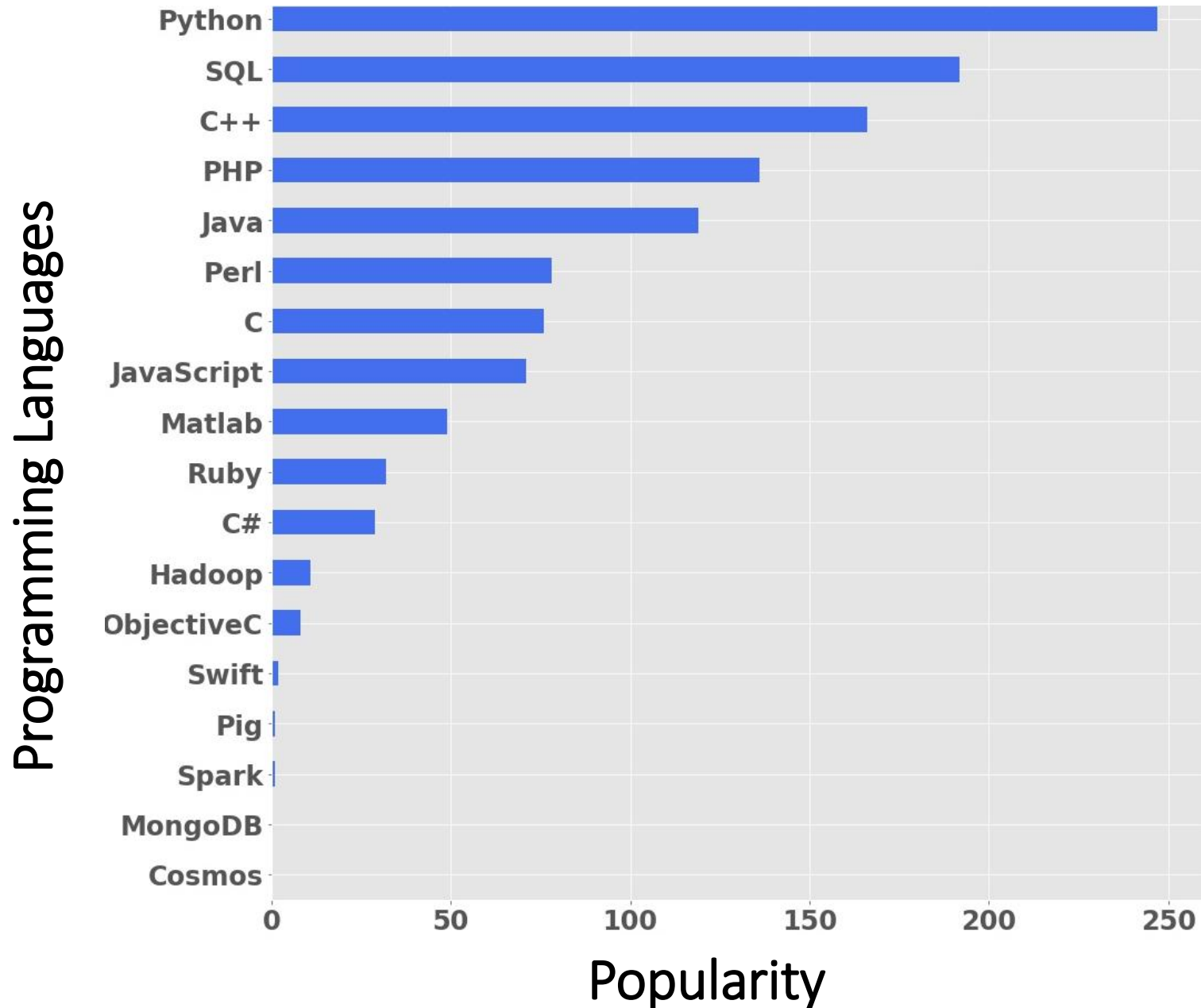
Preferred Programming Languages - Amazon



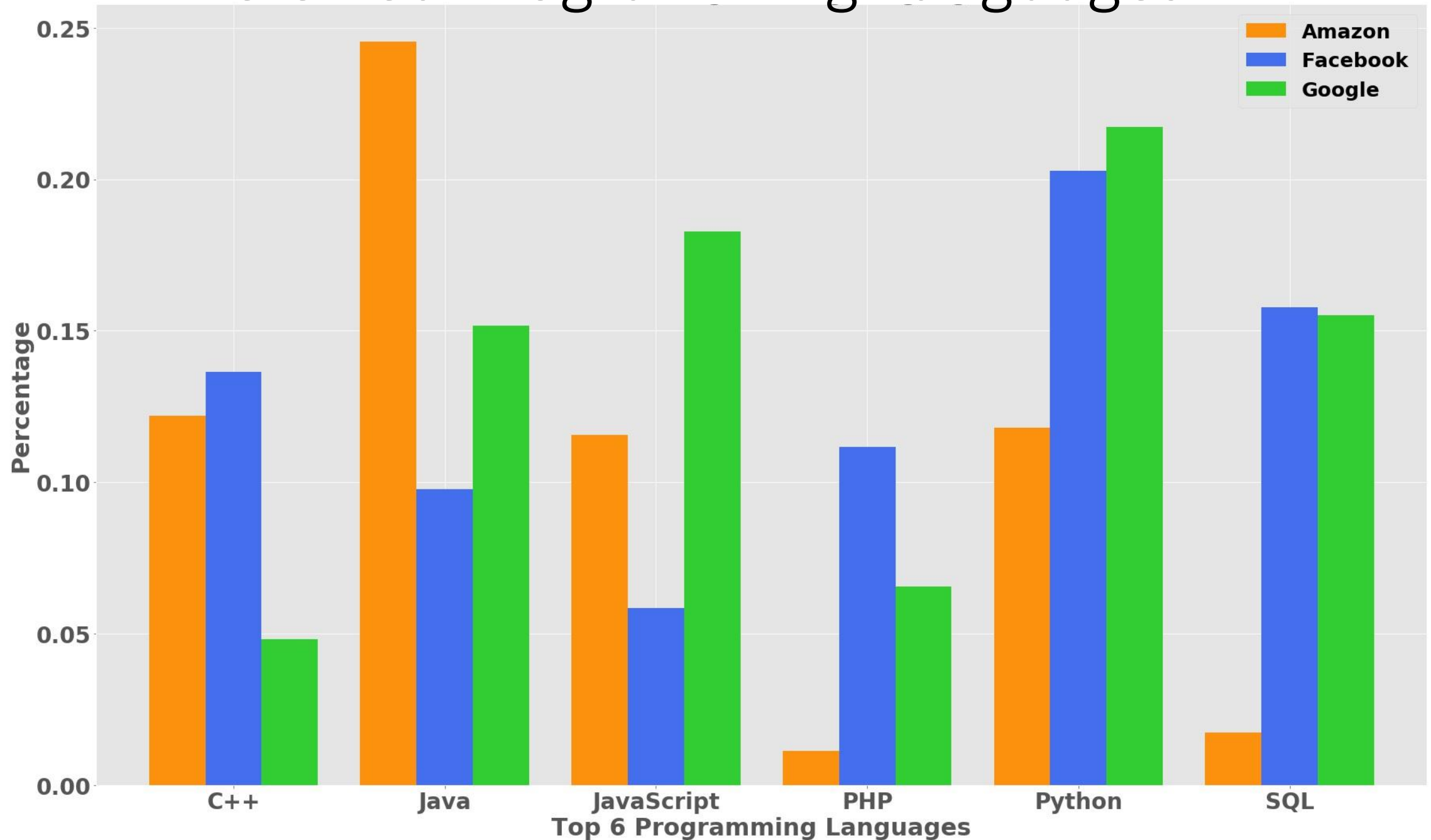
Preferred Programming Languages - Google



Preferred Programming Languages - Facebook



Preferred Programming Languages



Preferred Technical Skills

Amazon



Facebook



Google



Filter

Reset Filter

By Location →

By Major →

By Job Category →

By Level of Qualification →

By Level of Experience →

Technical Skills →

Non-Technical Skills →

Popular General Skills

Amazon



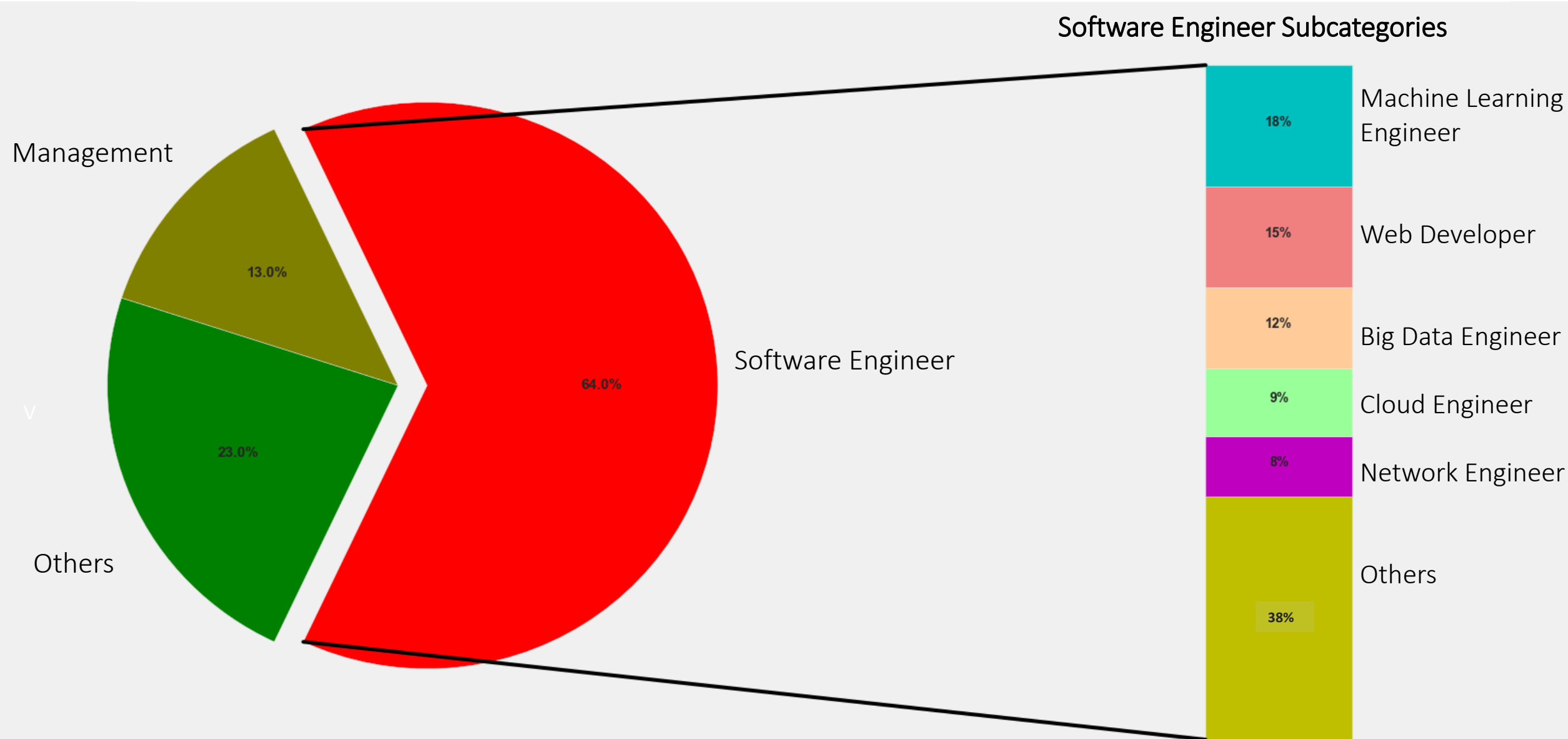
Facebook



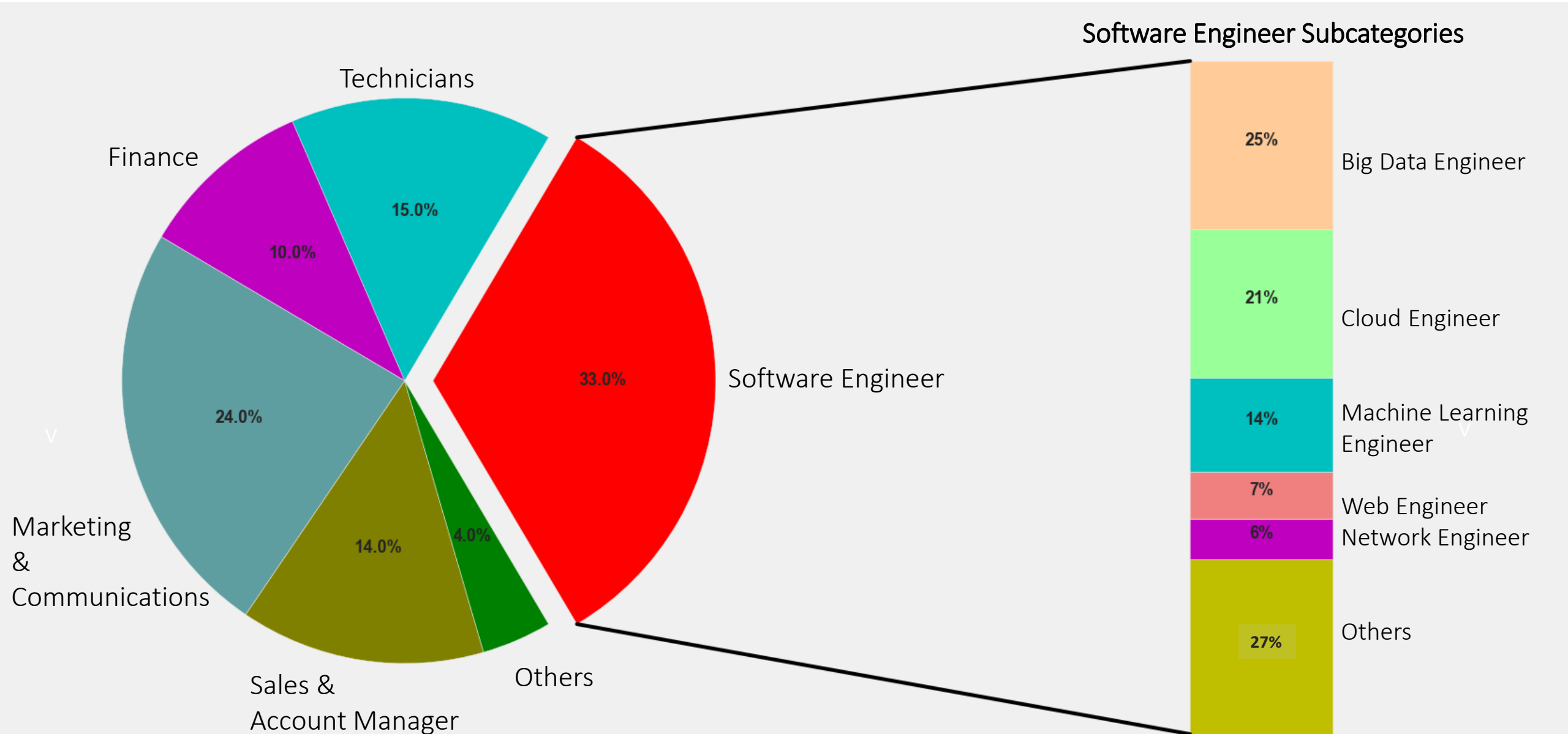
Google



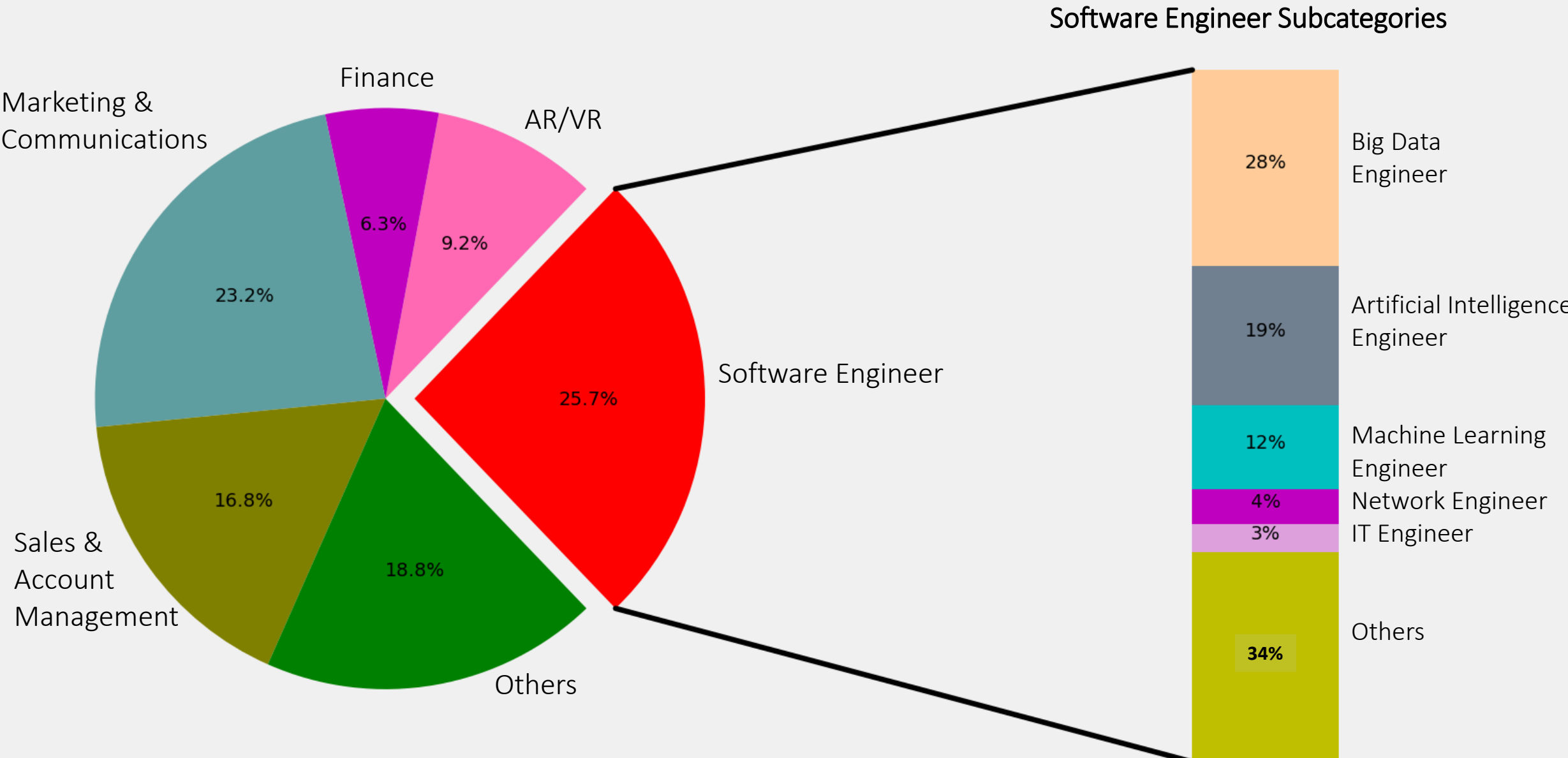
Job Category Distribution - Amazon

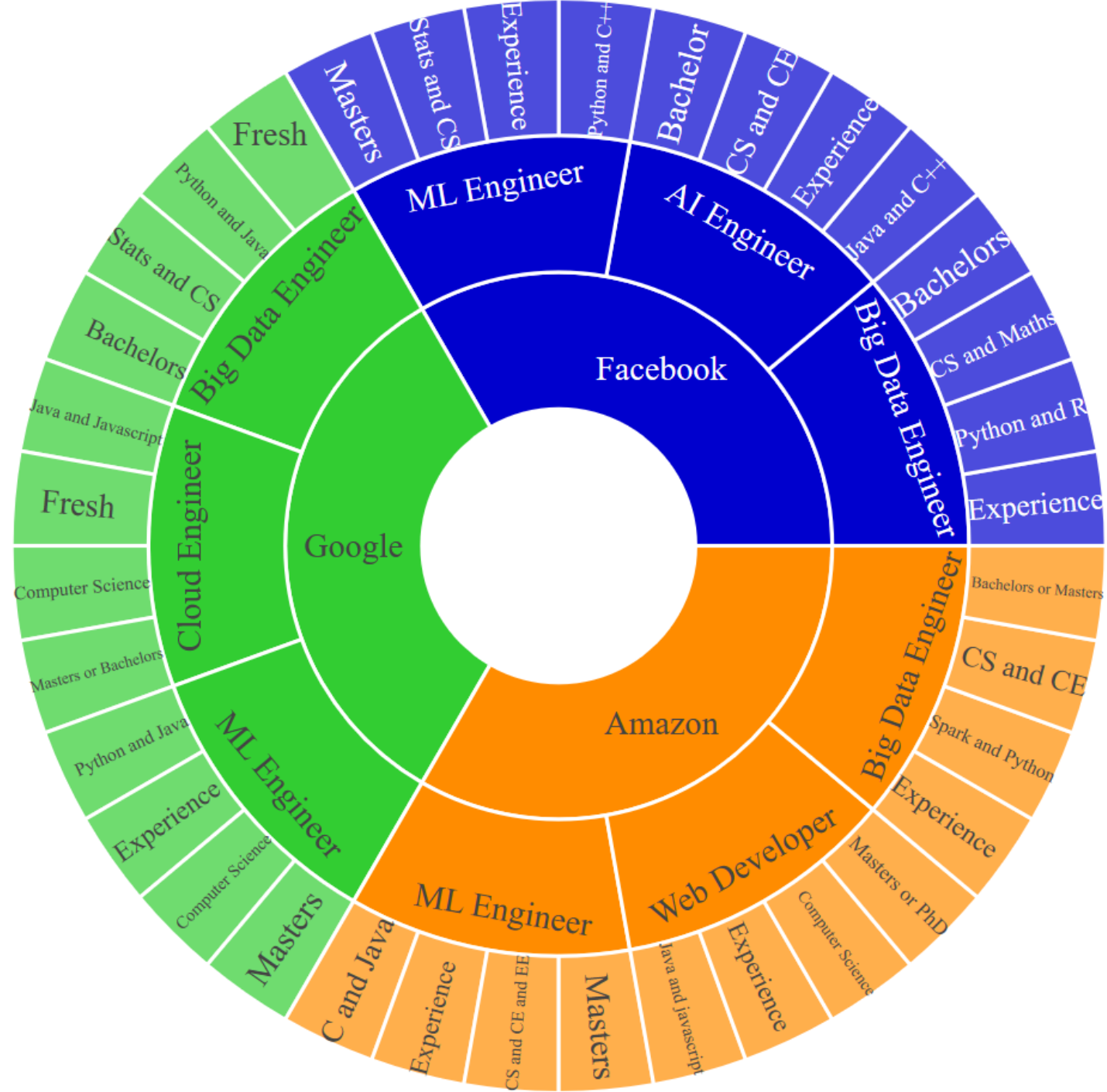


Job Category Distribution - Google



Job Category Distribution - Facebook





Thank You!

Presenters:



Yening Dong



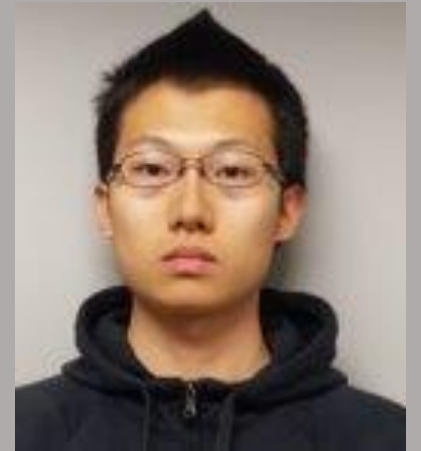
Srishty Dua



Hafiza Rauf



Bo Chen



Shuai Hao