

Jobs-Skills Gap in Nova Scotia's Technology Sector

Skills	Jobs(%)	Resumes(%)	Difference	
Java	31.51	23.11	-8.4	(-) Shortage
Javascript	11.15	6.6	-4.55	
React	4.99	1.65	-3.34	
Perl	2.45	0.24	-2.21	
CSS	8.32	6.13	-2.19	
Ruby	2.05	0	-2.05	
Rails	1.27	0	-1.27	
Swift	1.17	0	-1.17	
HTML	8.12	7.08	-1.04	
PHP	4.01	4.01	0	
Python	5.09	5.19	0.1	
Angular JS	2.94	3.07	0.13	
Django	0.39	0.71	0.32	
MATLAB	0.1	1.18	1.08	
XML	1.96	4.01	2.05	
NodeJS	2.25	4.48	2.23	
SQL	12.23	32.55	20.32	(+) Surplus

Recommendation: Provide Java and Javascript (web development) training, targeting older, SQL proficient workers.

Source: 53 resumes from <https://opportunities.digitalnovascotia.com/resumes/> and 349 job ads from <https://opportunities.digitalnovascotia.com/>. Accessed on 16/1/2020.

Methodology: selenium and beautifulsoup4. For each url: count total number of keyword occurrences; divide by sum of all keyword occurrences; subtract resulting skills percentage from jobs percentage.