**Data Analytics Resources List**

**Articles**

**The 10 Areas of Expertise in Data Science, and Why You Should Choose One**

**Understanding Your Career Options**

<https://medium.com/@melodyucros/interested-in-data-science-heres-a-list-of-of-10-specializations-to-choose-from-cd342c53b673>

**The 3 Essential Skill Areas of Data Science**

<https://www.dataversity.net/the-3-essential-skill-areas-of-data-science/>

**LinkedIn Workforce Report | Washington, D.C. | October 2018**

<https://www.linkedin.com/jobs/blog/linkedin-workforce-report-october-2018-washington-dc?lipi=urn%3ali%3apage%3ad_flagship3_pulse_read%3bwtnyyxsmq%2foda7l8mjvsda%3d%3d>

**Job Search Strategy Related:**

**Some Reflections on Being Turned Down for a lot of Data Science Jobs**

<https://tdhopper.com/blog/some-reflections-on-being-turned-down-for-a-lot-of-data-science-jobs/>

**Applying To Jobs? Don’t Make These Mistakes in Your Data Science Portfolio**

<https://www.dataquest.io/blog/data-science-job-portfolio-mistake/>

**Potential Job Titles**

* Business Analytics
* Business Intelligence
* Data Analytics
* Data Science
* H.R. Analytics
* Analytics Consultant
* Analytics Manager
* Data Architect
* Analytics Specialist
* Analytics Associate

**Skill Set**

Computer Science

Programming Skill – R, Python, Java

Technical Skills – Hadoop, Hive, Spark, etc.

Data Mining

Warehousing, Quantitative & Statistical, Analytical & Interpretation

Business Management – informs decisions about

Operations, Finance, and Productivity

**Main Software Platforms**

R A free software – the language and environment are good for statistical computing and graphics. Data miners use it to create statistical software and analyze data.

Tableau A Business Intelligence software used for Data Visualization, Dash boarding, and Data Discovery

Excel Useful for Collating Data, Cross Tabulation, and Statistical Summaries

**Career Overview**

**OnetOnline.org**

* Business Intelligence Analyst - <https://www.onetonline.org/link/summary/15-1199.08>
* Operations Research Analyst - <https://www.onetonline.org/link/summary/15-2031.00>
* Database Architect - <https://www.onetonline.org/link/summary/15-1199.06>
* Data Warehousing Architect - <https://www.onetonline.org/link/summary/15-1199.07>

**LinkedIn** - <https://www.linkedin.com/jobs/data-analyst-jobs?pageNum=0&position=1>

**Payscale.com** – Data Analyst salary - <https://www.payscale.com/research/US/Job=Data_Analyst/Salary>

**Montgomery College** - <http://cms.montgomerycollege.edu/careercoach.html>

**Networking/Meet-Ups**

* Tech Frederick <https://techfrederick.org/>
* Meet-Ups in and around D.C. <https://www.meetup.com/topics/data-analytics/us/dc/washington/>
* Data Science D.C. - <https://www.meetup.com/Data-Science-DC/>
* Big Data, Analytics and Artificial Intelligence - <https://www.meetup.com/Big-Data-and-Analytics-World/events/>
* Data Visualization D.C. -<https://www.meetup.com/Data-Visualization-DC/>
* Open Data Leaders - <https://www.meetup.com/Open-Data-Leaders/>
* Women and NB Data Scientists DC - <https://www.meetup.com/WomenDataScientistsDC/>
* Social Data and Analytics - <https://www.meetup.com/SocialDataDC/>
* Data+Women: Washington D.C. - <https://www.meetup.com/Data-Women-Washington-DC/>

**Certifications**

This field is developing and standardization and certifications will be developed. The certifications below cover the business intelligence software Tableau and Microsoft Power BI.

* Tableau Certification (3 levels): <https://www.tableau.com/support/certification>
* Microsoft Power BI: <https://www.microsoft.com/en-us/learning/exam-70-778.aspx>

**Free Training**

**\*\*Always check terms of “free” training in advance to make sure you’re not obligating yourself to purchase anything after you complete the free training.\*\***

* Freecodecamp.org <https://www.youtube.com/channel/UC8butISFwT-Wl7EV0hUK0BQ>
* Exerceo – Saturdays in Columbia, MD <https://exerceo.org/it-program.php>
* Alison.com Data Science Courses - <https://alison.com/courses/data-science>
* Lynda.com – 1st month is free. <https://www.lynda.com/>
* Montgomery County Library - regular library card can access electronic books for studying IT topics. Other local public libraries probably have similar opportunity for library card holders. <https://www.montgomerycountymd.gov/library/>
* **Free Beginner Python Tutorials** – has a little over 6 hours of tutorials in 5 parts

<https://www.youtube.com/watch?v=2uCXIbkbDSE&list=PLlz0muypSBNaksy2PnUeA7NQqGJc17VBH>

**Gratitude, Inspiration and Motivation**

* Dr. Brené Brown – The Power of Vulnerability <https://www.youtube.com/watch?v=iCvmsMzlF7o>
* <https://brianjohnson.me/> - videos and opportunity to sign up for daily email
* <https://www.optimize.me/philosophersnotes/>
* <http://www.oliversacks.com/blog/> - The Mind’s Eye
* <https://www.rickhanson.net/writings/just-one-thing/> - Resources for Happiness, Love and Wisdom
* www.simpletruths.com
* https://www.youtube.com/watch?v=uoxup9cy07M&feature=youtu.be - Empty Pickle Jar Video
* <https://www.ted.com/about/programs-initiatives/tedx-program> TEDx – lots of inspiring talks on a wide variety of topics
* <https://www.thindifference.com/>

**Cover Letters**

If you use a cover letter template from the Internet, check first to see if the cover letter you create becomes part of the site’s cover letter samples. Also check the header and footer to make sure there are no references to the website or author. When you save your cover letter, make sure you identify yourself as the author.

* Search for “IT Cover Letters” or “Data Analyst Cover Letters” on the Internet
* <http://blog.hubspot.com/marketing/how-to-write-cover-letter-template>
* Cover Letter Magic – book by Susan Whitcomb <https://www.themuse.com/advice/the-cover-letters-that-make-hiring-managers-smile-then-call-you>

**Résumés**

If you use a résumé template from the Internet, check first to see if the résumé you create becomes part of the site’s résumé samples. Also check the header and footer to make sure there are no references to the website or author. When you save your résumé, make sure you identify yourself as the author.

\*Take a workshop on Résumé Writing at a local American Job Center (AJC), e.g. FCWS, WorkSource Montgomery. Go to <https://www.dllr.state.md.us/county/>, click on county on map and then click Events in left side margin. \* To find nearest AJC in other states, go to https://www.careeronestop.org/Site/american-job-center.aspx.

* <https://zety.com/blog/data-analyst-resume>
* <https://zety.com/blog/business-analyst-resume>
* <https://www.youtube.com/watch?v=WXTu9VvIuyc>
* **Infographic - 18 Resume Tips to Stand Out from the Rest**<https://www.dailyinfographic.com/building-the-ultimate-resume-using-science?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+DailyInfographic+%28Daily+Infographic%29>
* [https://www.themuse.com/advice/resume-revamp-**how-to-turn-your-duties-into-accomplishments**](https://www.themuse.com/advice/resume-revamp-how-to-turn-your-duties-into-accomplishments)
* [http://career-advice.monster.com/resumes-cover-letters/resume-writing-tips/resume-dig-deep-**accomplishments**/article.aspx](http://career-advice.monster.com/resumes-cover-letters/resume-writing-tips/resume-dig-deep-accomplishments/article.aspx)
* <https://www.thebalance.com/free-resume-templates-for-tech-careers-2071493>
* [http://www.jobscan.co/blog/2014/06/24/7-ways-to-optimize-your-resume-for-**applicant-tracking-systems**/](http://www.jobscan.co/blog/2014/06/24/7-ways-to-optimize-your-resume-for-applicant-tracking-systems/)
* [www.jobscan.co](http://www.jobscan.co) – analyze job description and your résumé to see how many **keywords** your used
* [www.tagcrowd.com](http://www.tagcrowd.com) – identify words used most frequently in job description – **keywords**
* Search “Data Analyst Résumés” on the Internet
* Resume Magic – book by Susan Whitcomb (local library/workforce center, amazon.com)

**Career Transition Resume Writing**

* Resume Writing Tips for Changing Careers - <https://www.thebalancecareers.com/career-change-resume-writing-tips-4134292>
* https://zety.com/blog/career-change-resume
* Writing Resumes for Different Industries - https://www.themuse.com/advice/this-is-how-you-spin-1-resume-for-5-different-industries

**LinkedIn**

\*Take a Linked In workshop at a local American Job Center (AJC), e.g. FCWS, WorkSource Montgomery. Go to <https://www.dllr.state.md.us/county/>, click on county on map and then click Events in left side margin. \* To find nearest AJC in other states, go to https://www.careeronestop.org/Site/american-job-center.aspx.

* <https://www.themuse.com/advice/the-31-best-linkedin-profile-tips-for-job-seekers>
* How to customize your LinkedIn URL: <https://www.linkedin.com/help/linkedin/answer/87/customizing:your%20%E2%80%93public-profile-url>

**Interviews**

\*Take a class on Interviewing at local American Job Center, e.g. FCWS, WorkSource Montgomery - https://www.dllr.state.md.us/county/ - click on county on map and then click Events in left side margin. To find nearest AJC in other states, go to https://www.careeronestop.org/Site/american-job-center.aspx.

* <https://www.youtube.com/watch?v=5JZsSNLXXuE> – Data Scientist Interview Questions
* Theinterviewguys.com
* Search “Data Analyst Interviews” or “Business Analyst Interviews” on the Internet
* Interview Magic – book by Susan Whitcomb

**Possible Internship or Work and Learn Opportunities**

The eligibility requirements for internships vary and the posting will tell you what they are. If an opportunity is currently closed, look for information indicating when the application process will open again.

* **Federal Government -** <https://www.opm.gov/policy-data-oversight/hiring-information/students-recent-graduates/#url=intern>
* **LinkedIn –** Use keywords, e.g. software development internship, on LinkedIn to find employers offering internships and their requirements.
* **GEICO -** https://www.geico.com/careers/students-and-grads/<https://www.geico.com/careers/students-and-grads/internships/>
* **ISS** - <https://careers-us-issgovernance.icims.com/jobs/intro?hashed=-435655071>
* **Way-Up** - https://www.wayup.com/s/internships/it/
* [**Internships.com**](http://www.internships.com/) is the top site within the internship marketplace featuring over 260,000 jobs and internships at over 130,000 organizations.  Job seekers can isolate paid internships and summer opportunities as well as entry level jobs in a broad spectrum of fields.

<http://www.internships.com/it/washington-dc> (or your desired work state/region)

* [**Idealist.org**](https://www.idealist.org/) is the premier clearinghouse for information on full-time, internship, and volunteer positions within the non-profit sector.  You can identify target organizations by their mission and specific types of opportunities within various niches. Registered users can search for contacts in fields or organizations of interest and message them for networking purposes.
* [**CollegeRecruiter.com**](https://www.collegerecruiter.com/) is a highly acclaimed site designed to meet the employment needs of current college students and recent graduates. Users can identify entry-level opportunities and internships without sifting through volumes of postings which require more experience. The site also presents handy survey data about the best places to work. Job seekers can receive a free résumé critique from an expert.
* **Search other job websites, -** Indeed.com, glassdoor.com, dice.com – and use search terms like “internship,” “work and learn,” “on-site training,” etc. Or Google the term “return to work programs” and see what other opportunities might be available.

**Staffing/Contract Agencies**

We have not vetted these agencies/companies, but some customers have found them helpful in getting short and long-term contracts, contract-to-hire and direct hire positions.

* **Abbtech** – abbtech.com
* **ActioNet** - [www.actionet.com](http://www.actionet.com)
* **Apex Systems Inc. -** https://www.apexsystems.com/Pages/default.aspx
* **Creative Circle** - [www.creativecircle.com](https://remote.aawdc.org/owa/redir.aspx?C=RP2Xqiae1CwtOPV0_4iyeC8i-gQH690DxLytyDGifGkgf3eG4v7UCA..&URL=http%3a%2f%2fwww.creativecircle.com%2f)
* **cybercoders.com -** https://www.cybercoders.com/
* **Insight Global** - www.insightglobal.net
* **Randstad Technologies** - https://www.randstadusa.com/jobs/search/information-technology/
* **Sparks Group** – IT - Short and long-term contracts, contract-to-hire, direct hire - <https://sparksgroupinc.com/find-a-job/>
* **TEKSystems** - [www.teksystems.com/IT/jobs](http://www.teksystems.com/IT/jobs)
* **The Judge Group** - [www.judge.com](http://www.judge.com)

**IT Job Postings**

* **Dice.com**
* **Onetonline.org**
* **USAJobs.gov** - <https://www.usajobs.gov/Help/working-in-government/unique-hiring-paths/students/>
* [**Stackoverflow.com**](https://stackoverflow.com/) is a vehicle for programmers and developers to access job opportunities and network with other professionals in the field.  Job seekers can gain visibility by demonstrating their knowledge to other players in the field.
* [**OneWire.com**](http://www.onewire.com/) is heavily utilized by financial services, accounting, asset/investment management and technology firms to find the right candidates for their vacancies.  Job seekers complete a detailed profile which generates matches from the OneWire jobs database.  Employers query the candidate database and find prospects based on those same profiles.
* [**Upwork.com**](https://www.upwork.com/o/jobs/browse/) provides a platform for independent contractors like designers, programmers, application developers, writers, marketers, and legal professionals to find projects and advertise their services to prospective employers.

**Career Assessments**

**CareerOneStop** - <https://www.careeronestop.org/ExploreCareers/Assessments/self-assessments.aspx>

**The Balance.com** - <https://www.thebalance.com/self-assessment-4073347> - Your skills, interests, personality, and values shape your career. Whether you are just starting out or are curious about other careers, these self-assessment tests and tools will help you make the right choice.

**ONet Interest Profiler -** <https://www.onetcenter.org/IP.html>

**Onetonline.org** - Look up your strongest skills in [O\*NET](http://www.onetonline.org/find/descriptor/browse/Skills/2.A/) to see which occupations match them best. <https://www.onetonline.org/find/descriptor/browse/Skills/2.A/>

[**My Next Move**](https://www.mynextmove.org/)- https://www.mynextmove.org/explore/ip is a web-based vocational interest assessment instrument. Receive an accurate, reliable profile of vocational interests that:

1. helps identify work-related interests,
2. focuses career search activities, and
3. enables you to link your vocational interests to O\*NET-SOC occupations.

**MySkillsMyFuture** - Enter your previous occupation in [mySkills myFuture](http://www.myskillsmyfuture.org/) to see types of careers your skills and experience will transfer to. <https://www.myskillsmyfuture.org/>

**Veterans**

Visit **CareerOneStop’s Veteran and Military Transition Center** to learn more about accessing employment-related services for veterans. Veteran and Military Transition Center is a one-stop shop for transitioning service members looking for employment, training, or financial assistance. <https://www.careeronestop.org/Veterans/default.aspx> .

You'll also find resources to help you:

* Match your military skills and experiences to civilian careers
* Search for jobs in your local area or across the United States
* Learn about and access other benefits for veterans

**Veterans and Spouses Job Finder Link -** <https://www.careeronestop.org/Toolkit/Jobs/Find-Veteran-Jobs.aspx>  
  
**O\*Net/My Next Move** - https://www.mynextmove.org/vets/

**LinkedIn Premium 1-year free subscription** https://linkedinforgood.linkedin.com/programs/veterans/premiumform

**Résumé Websites for Veterans**

* https://zety.com/blog/military-resume
* https://www.careeronestop.org/Veterans/default.aspx
* https://www.careeronestop.org/Veterans/JobSearch/Resumes/resumes.aspx
* <https://www.onetonline.org/crosswalk/MOC/>
* https://www.vets.gov/employment/job-seekers/skills-translator
* <https://www.military.com/veteran-jobs/career-advice/resume-writing/translating-military-skills-into-resume.html>
* <https://www.monster.com/resumes/post-resume2> - upload your resume and get feedback
* ResumePlace.com – Building Careers in the US Government <https://www.resume-place.com/2018/03/diverse-jobs-for-vets/>

**MilitaryOneSource** - <https://www.militaryonesource.mil/military-life-cycle/separation-transition/employment-education/credentialing-your-military-experience>

**Benefits** - <https://www.careeronestop.org/WorkerReEmployment/MoreBenefits/for-veterans.aspx> Veterans can locate their local VA facility for medical and health care assistance.

**VA Careers** - <https://www.vacareers.va.gov/>

**Build Your Career** - <https://www.va.gov/jobs/> VA for Vets, VA Careers, FedsHireVets

**Maryland Department of Labor, Licensing & Regulation (DLLR) Veterans Services – Workforce Development and Adult Learning** http://www.dllr.state.md.us/employment/veteranservices.shtml  
 **Defense Contract Management Agency** - [http://www.dcma.mil/](https://remote.aawdc.org/owa/redir.aspx?C=TcI9Hb4CE0OV5BXRKgpJ8gYon8Ir29IIe03D78jzGEfgbKHBSehJqQuq7QLZh6ZWxCSnLNaw-Qw.&URL=http%3a%2f%2fwww.dcma.mil%2f)

**United States Navy Careers** - <https://www.navy.com/careers.html>

**Defense Logistics Agency** - http://www.dla.mil/Careers/