Analytics Fundamentals

* [Relational Algebra (basic)](https://en.wikipedia.org/wiki/Relational_algebra)
* [Structured Query Language (SQL) (proficient)](https://en.wikipedia.org/wiki/SQL)
* [Multidimensional Data Modeling (proficient)](https://en.wikipedia.org/wiki/Dimensional_modeling) • [Online Analytical Processing (proficient)](https://en.wikipedia.org/wiki/Online_analytical_processing)
* [Extraction, Transformation, Load (proficient)](https://en.wikipedia.org/wiki/Extract,_transform,_load)
* [Linear Algebra-Matrix/Vector Operations (basic)](https://en.wikipedia.org/wiki/Linear_algebra)
* [Extensible Markup Language (basic)](http://www.w3.org/XML/)
* [JavaScript Object Notation (basic)](https://en.wikipedia.org/wiki/JSON)
* [Comma Separated Values Files (proficient)](https://en.wikipedia.org/wiki/Comma-separated_values)
* [Graph Theory (basic)](https://en.wikipedia.org/wiki/Graph_theory)

Databases

* [Cassandra (formal training)](http://cassandra.apache.org/)
* [Ontotext GraphDB (used)](http://ontotext.com/products/ontotext-graphdb-owlim/)
* [MongoDB (formal training)](https://www.mongodb.com/)
* [MySQL (used)](https://www.mysql.com/)
* [Neo4j (evaluated)](http://neo4j.com/)
* [Oracle (used)](http://www.oracle.com/index.html)
* [SQL Server (used)](http://www.microsoft.com/en-us/server-cloud/products/sql-server/)
* [Stardog (used)](http://stardog.com/)
* [Teradata (evaluated very lightly)](http://www.teradata.com/?LangType=1033)
* [Virtuoso (evaluated)](http://virtuoso.openlinksw.com/)

Development Environments

* [Anaconda (evaluated)](https://store.continuum.io/cshop/anaconda/)
* [Databricks (used)](https://databricks.com/)
* [Eclipse (used)](https://eclipse.org/)
* [Enthought Canopy (evaluated)](https://www.enthought.com/products/canopy/)
* [IDLE (evaluated)](https://docs.python.org/2/library/idle.html)
* [iPython interpreter (evaluated)](http://ipython.org/)
* [iPython notebook(used)](http://ipython.org/notebook.html)
* [Komodo (evaluated)](http://komodoide.com/)
* [NetBeans (used)](https://netbeans.org/)
* [Oracle SQL Developer (used)](http://www.oracle.com/technetwork/developer-tools/sql-developer/overview/index-097090.html)
* [Oracle Applications (used)](https://www.oracle.com/applications/index.html)
* [Pycharm (used)](https://www.jetbrains.com/pycharm/)
* [Revolution R](http://www.revolutionanalytics.com/revolution-r-enterprise) (used)
* [R Studio (used)](https://www.rstudio.com/)

Development Environments (continued)

* [Spyder (used)](https://code.google.com/p/spyderlib/)
* [Stanford Protege (used)](http://protege.stanford.edu/)
* [Teradata Studio Express (evaluated very lightly)](https://downloads.teradata.com/download/tools/teradata-studio-express)
* [TopBraid Composer (used)](http://www.topquadrant.com/product/TB_Composer.html)
* [Visual Studio (evaluated)](https://www.visualstudio.com/en-us/visual-studio-homepage-vs.aspx)
* [Web Storm (used)](https://www.jetbrains.com/webstorm/)
* [Wing (evaluated)](https://wingware.com/)
* [WinPython (used)](http://winpython.sourceforge.net/)

Development Processes

* [Quality (e.g., security, reliability, usability) Assurance (basic)](https://en.wikipedia.org/wiki/Software_quality)
* [User Interface Design Principles (proficient)](https://en.wikipedia.org/wiki/Principles_of_user_interface_design)
* [Functional Requirements (expert)](https://en.wikipedia.org/wiki/Functional_requirement)
* Listening (proficient, but one can always work on this...)
* [System Requirements (basic)](https://en.wikipedia.org/wiki/System_requirements)
* [Nonfunctional Requirements (proficient)](https://en.wikipedia.org/wiki/Non-functional_requirement)
* [Tracing Requirements (proficient)](https://en.wikipedia.org/wiki/Requirements_traceability)
* [Software Design Patterns (rudimentary)](https://en.wikipedia.org/wiki/Software_design_pattern)
* [UML Graphical Modeling (expert)](http://www.uml.org/)
* [Software Testing (basic)](https://en.wikipedia.org/wiki/Software_testing)
* [IEEE Software Engineering Standards (proficient)](http://standards.ieee.org/findstds/standard/software_and_systems_engineering_p7.html)

Drag and Drop Toolboxes

* [Cognos (evaluated)](http://www-01.ibm.com/software/analytics/cognos/)
* [Informatica (used)](https://www.informatica.com/%23fbid=dLeJ2oR61WY)
* [Oracle Business Intelligence 11g (evaluated)](http://www.oracle.com/us/solutions/business-analytics/business-intelligence/enterprise-edition/overview/index.html)
* [Oracle Fusion/Essbase (evaluated)](http://www.oracle.com/us/solutions/business-analytics/business-intelligence/essbase/overview/index.html)
* [RapidMiner (used/taught)](https://rapidminer.com/)
* [SAP Business ByDesign (used/taught)](http://go.sap.com/product/erp/business-bydesign.html)
* [SAP Business Objects (formal training/used)](https://www.sapbi.com/)
* [SAP Crystal Reports (used/taught)](http://www.sap.com/solution/sme/software/analytics/crystal-bi/index.html)
* [SPSS (used)](http://www-01.ibm.com/software/analytics/spss/)
* [Tableau (evaluated)](http://get.tableau.com/trial/tableau-software.html?cid=701600000005cS4&ls=Paid%20Search&lsd=Google%20AdWords%20-%20Tableau%20-%20Free%20Trial&adgroup=Tableau%20-%20Exact&kw=tableau&adused=74872198935&distribution=search&gclid=CPGK3Mvi08cCFcaRHwodmtwCuQ)
* Brio (absorbed by Hyperion then by Oracle) (used)
* Sequitur (defunct or absorbed, not sure)

Languages

* [C (very, very long time ago)](https://en.wikipedia.org/wiki/The_C_Programming_Language)
* [C++ (very long time ago)](https://en.wikipedia.org/wiki/C%2B%2B)
* [Java (basic)](https://www.oracle.com/java/index.html)
* [JavaScript/CSS/HTML (basic)](https://en.wikipedia.org/wiki/JavaScript)
* [JSON (basic)](http://json.org/)
* [Markdown (basic)](http://daringfireball.net/projects/markdown/)
* [Pandoc (basic)](http://pandoc.org/)
* [Python (familiar)](https://www.python.org/)
* [OWL (basic)](http://www.w3.org/TR/owl-overview/)
* [R (proficient)](https://www.r-project.org/)
* [RDF (basic)](http://www.w3.org/RDF/)
* [Regular Expressions (between basic and proficient)](https://en.wikipedia.org/wiki/Regular_expression)
* [Spark (familiar)](http://spark.apache.org/)
* [SPARQL (basic)](http://www.w3.org/TR/sparql11-query/)
* [SQL (proficient)](https://en.wikipedia.org/wiki/SQL)
* [UML (proficient)](http://www.uml.org/)
* [XML (basic)](http://www.w3.org/XML/)

Machine Learning Fundamentals

* [Classification (basic)](https://en.wikipedia.org/wiki/Statistical_classification)
* [Regression (basic)](https://en.wikipedia.org/wiki/Regression_analysis)
* [Resampling (rudimentary)](https://en.wikipedia.org/wiki/Resampling_(statistics)%3c/a%3e%3c/li%3e)
* [Model Selection (rudimentary)](https://en.wikipedia.org/wiki/Model_selection)
* [Regularization (rudimentary)](https://en.wikipedia.org/wiki/Regularization_(mathematics)%3c/a%3e%3c/li%3e)
* [Non-linear Models (rudimentary)](https://en.wikipedia.org/wiki/Nonlinear_regression)
* [Tree-based Methods (rudimentary)](https://en.wikipedia.org/wiki/Decision_tree_learning)
* [Support Vector Machines (rudimentary)](https://en.wikipedia.org/wiki/Support_vector_machine)
* [Clustering (rudimentary)](https://en.wikipedia.org/wiki/Cluster_analysis)

Miscellaneous

* [Adobe Illustrator](http://www.adobe.com/products/illustrator.html)
* [Photoshop (used)](http://www.adobe.com/products/photoshop.html)
* [Altova XML Spy (used)](http://www.altova.com/xmlspy.html)
* [Apache Jena (Java API>(used)](https://jena.apache.org/)
* [Apache Tomcat (Web Server)> (used)](http://tomcat.apache.org/)
* [Bootstrap (Web Framework)> (used)](http://getbootstrap.com/)
* [Foundation (Web Framework)> (used)](http://foundation.zurb.com/)

Miscellaneous (continued)

* [Google Apps (used)](https://www.google.com/work/apps/business/)
* [IBM Rational Software (used)](http://ibm.co/1Q40Q7w)
* [Jack Intelligent Agents (used)](http://aosgrp.com/products/jack/)
* [Jadex Active Components (Java API) (used)](http://www.activecomponents.org/bin/view/About/Features)
* [Microsoft Project (used)](http://bit.ly/1D9XNCD)
* [Microsoft Visio (used)](http://bit.ly/1NJ7L7V)
* [SharePoint (used)](https://products.office.com/en-us/sharepoint/collaboration)
* [Access (used)](http://bit.ly/1FcLZ4n)
* [OpenRDF Sesame (Java API)(used)](http://rdf4j.org/)
* [Pellet (lightly evaluated)](https://github.com/complexible/pellet)
* [Pure (Web Framework)> (used)](http://purecss.io/)
* [Research Cyc (lightly evaluated)](http://www.cyc.com/platform/researchcyc/)
* [WordNet (used)](https://wordnet.princeton.edu/)
* [Verbnet (used)](http://verbs.colorado.edu/verb-index/index.php)
* [FrameNe (used)](https://framenet.icsi.berkeley.edu/fndrupal/)
* [PropBank (used)](http://verbs.colorado.edu/%7Empalmer/projects/ace.html)
* [LemonUBY (Vocabularies) (used)](http://lemon-model.net/lexica/uby/)
* [LSEG4 (used)](http://www.corollarytheorems.com/Grammar/lseg.htm)
* [Lexical Markup Framework](http://www.lexicalmarkupframework.org/)
* [isoCAT (Grammars) (used)](http://www.isocat.org/)
* [CCAE](http://corpus.byu.edu/coca/)
* [Penn TreeBank](https://www.cis.upenn.edu/%7Etreebank/)
* [British National Corpuses (used)](http://corpus.byu.edu/bnc/x.asp?r1=&w=1280&h=720)
* [Windows Movie Maker (used)](http://windows.microsoft.com/en-us/windows-live/movie-maker)
* Open Source or Free Alternatives (proficient)

Programming Fundamentals

* [Input/Output (proficient)](https://en.wikipedia.org/wiki/Input/output)
* [Control Flow (proficient)](https://en.wikipedia.org/wiki/Control_flow)
* [Classes (basic)](https://en.wikipedia.org/wiki/Class_%28computer_programming%29)
* [Objects (basic)](https://en.wikipedia.org/wiki/Object_%28computer_science%29)
* [Functions (proficient)](https://en.wikipedia.org/wiki/Subroutine)
* [Methods (proficient)](https://en.wikipedia.org/wiki/Method_%28computer_programming%29)
* [Dictionaries (between basic and proficient)](https://en.wikipedia.org/wiki/Associative_array)
* [Lists (between basic and proficient)](https://en.wikipedia.org/wiki/List_%28abstract_data_type%29)
* [Sets (between basic and proficient)](https://en.wikipedia.org/wiki/Set_%28abstract_data_type%29)
* [Graphs (between basic and proficient)](https://en.wikipedia.org/wiki/Graph_%28abstract_data_type%29)
* [Iteration (proficient)](https://en.wikipedia.org/wiki/Iteration)
* [Vectorization (rudimentary)](https://en.wikipedia.org/wiki/Array_programming)

Programming Fundamentals (continued)

* [Recursion (basic)](https://en.wikipedia.org/wiki/Recursion)
* [Exception Handing (rudimentary)](https://en.wikipedia.org/wiki/Exception_handling)
* [Lambda Expressions (basic)](https://en.wikipedia.org/wiki/Anonymous_function)
* [Map (basic)](https://en.wikipedia.org/wiki/Map_%28higher-order_function%29)
* [Reduce (basic)](https://en.wikipedia.org/wiki/Fold_%28higher-order_function%29)
* [Closures (rudimentary)](https://en.wikipedia.org/wiki/Closure_%28computer_programming%29)
* [Search Algorithms (rudimentary)](https://en.wikipedia.org/wiki/Category:Search_algorithms)

Programming (Statistics) Toolboxes

* [MATLAB (evaluated)](http://www.mathworks.com/products/matlab/)
* [Octave (used)](https://www.gnu.org/software/octave/)
* [Minitab (used)](http://www.minitab.com/en-us/products/minitab/)
* [Python (used)](https://www.python.org/)
* [R (used)](https://www.r-project.org/)
* [Rattle (learned)](http://rattle.togaware.com/)
* [Revolution R (used)](http://www.revolutionanalytics.com/revolution-r-enterprise)
* [SAS (evaluated)](https://www.sas.com/en_us/home.html)
* [Stata (used)](http://www.stata.com/)

Programming Utilities

* [AWS Compute / Storage / Database (using)](https://aws.amazon.com/products/?nc2=h_ql_reinvent_or)
* [Heroku / Python / NodeJS (using)](https://www.heroku.com/)
* [Cygwin (used)](https://www.cygwin.com/)
* [GitHub (using)](https://github.com/)
* [JSFiddle](https://jsfiddle.net/)
* [CodePen (used)](http://codepen.io/)
* [Maven (evaluated)](https://maven.apache.org/)
* [Oracle Virtual Box (used)](https://www.virtualbox.org/wiki/Downloads)
* [Putty (used)](http://www.chiark.greenend.org.uk/%7Esgtatham/putty/download.html)
* [Regex101, RegexPal, Regexr, Pythex, (using)](https://regex101.com/)
* [RPubs (using)](https://rpubs.com/)
* [ShinyApps (using)](https://www.shinyapps.io/)
* [Notepad++, Sublime, EmEditor, Nano, Gedit, etc. (using)](https://notepad-plus-plus.org/)
* [Ubuntu Linux (using)](http://www.ubuntu.com/)
* [Unix (used)](http://www.unix.org/)
* [VMWare (evaluated)](http://www.vmware.com/)

Project Management

* [Reference for all items in this section](https://en.wikipedia.org/wiki/Project_management)
* Risk Management (basic)
* Quality Management (basic)
* Scope (Requirements) Management (proficient)
* Time (Schedule) Management (basic)
* Cost (Budget) Management (basic)
* Employee Management (basic) • Vendor Management (basic)
* Customer Management (basic)
* Interface with Software Engineering (expert)

Statistics Fundamentals

* [Reference for all items in this section](https://en.wikipedia.org/wiki/Statistics)
* Descriptive Statistics (proficient)
* Distributions (basic)
* Probability Theory (proficient)
* Bayes Theorem (basic)
* Hypothesis Testing (between basic and proficient)
* Simple & Multiple Linear Regression (proficient)
* Oneway & Multifactor ANOVA (basic)
* Logistic & Ordinal Regression (proficient)
* Binomial Test (basic)
* Chi-square Contingency Tables (basic)
* Non-parametric Alternatives (proficient)

Python Packages

* [Reference for all items in this section](https://pypi.python.org/pypi)
* Beautiful Soup (used)
* Bottle (used)
* Core NLP (evaluated)
* iPython (used)
* MatPlotLib (evaluated)
* NumPy (used)
* Pandas (used)
* PyMongo (used)
* pyR (evaluated)
* PySpark (used)
* Re (used)

Python Packages (continued)

* SciPy (used)
* NLTK (used)
* PyQt (used)

R Libraries

* [Reference for all items in this section](https://cran.r-project.org/)
* caret (used)
* ggplot2 (used)
* data.table (used)
* doBy (used)
* Hmisc (used)
* knitr (used)
* MASS (used)
* lattice (used)
* leaps (used)
* plyr (used)
* rCharts (used)
* regex (used)
* reshape2 (used)
* rPython (evaluated)

Training Approaches & Tools

* [Project-based Learning (expert)](https://en.wikipedia.org/wiki/Project-based_learning)
* [Problem-based Learning (expert)](https://en.wikipedia.org/wiki/Problem-based_learning)
* [Case Based Learning (expert)](https://en.wikipedia.org/wiki/Case_method)
* [Collaboration and Learning (expert)](https://en.wikipedia.org/wiki/Collaborative_learning)
* [Technology and Learning (expert)](http://www.ed.gov/oii-news/use-technology-teaching-and-learning)
* [Learning Outcomes (proficient)](https://en.wikipedia.org/wiki/Bloom's_taxonomy)
* [Learning Outcomes Assessment (proficient)](https://en.wikipedia.org/wiki/Educational_assessment)
* [Camtasia](https://www.techsmith.com/camtasia.html)
* [Audacity](http://audacityteam.org/)
* [Adobe Creative Cloud (used)](http://www.adobe.com/creativecloud.html)
* [WebEx](http://www.webex.com/)
* [GoToMeeting](http://www.gotomeeting.com/)
* [Google Hangouts (used)](https://hangouts.google.com/)
* [PollEverywhere](https://www.polleverywhere.com/)
* [Socrative (used)](http://www.socrative.com/)
* [Screencast](https://www.screencast.com/)

Training Approaches & Tools (continued)

* [YouTube (used)](https://www.youtube.com/)
* [Articulate](https://www.articulate.com/)
* [Captivate](http://www.adobe.com/products/captivate.html)
* [Lectora (evaluated)](http://trivantis.com/)
* WebCT (now part of Blackboard)
* [Sakai](https://sakaiproject.org/)
* [Blackboard](http://www.blackboard.com/)
* [Moodle (used)](https://moodle.org/)
* [Simulations](https://erpsim.hec.ca/)
* [Virtual Worlds](http://www.3dicc.com/)
* [Augmented Reality(used)](https://www.youtube.com/watch?v=ewpPfknIUZI)