Professional Development

- CMU
    - Computer Systems
    - Parallel Computer Architecture and Programming
    - Database Systems - In Memory
    - Machine Learning
- Coursera
    - Learning how to learn
    - Neural Networks and Deep Learning
    - Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
    - Structuring Machine Learning Projects
    - Convolutional Neural Networks
    - Sequence Models
    - Big Data Analysis with Scala and Spark
    - Statistical Inference
    - Mindshift
    - Machine Learning
    - How to Win a Data Science Competition: Learn from Top Kagglers
    - Bayesian Methods for Machine Learning
    - Natural Language Processing
- Udacity
    - Scalable microservices with Kubernetes
    - Intro to Machine Learning
    - Deep Learning
    - Intro to Hadoop and MapReduce
    - Front End Frameworks
    - Applied Cryptography
    - Networking for Web Developers
    - Configuring Linux Web Servers
- Stanford
    - Compilers
    - Mining Massive Datasets (MOOC lectures only)
- Practical Deep Learning For Coders
- Deep Natural Language Processing
- DataCamp
    - Introduction to R
    - Data Analysis and Statistical Inference (R based)
    - Basic Statistics (R based)
    - Intro to Python for Data Science
    - Inferential Statistics (R based)
    - Intro to SQL for Data Science

generalizing specialist (n): **a jack-of-all-trades and master of a few**

- **CMU**
    - **Computer Systems** ⛔
        - http://www.cs.cmu.edu/~213/schedule.html
    - **Parallel Computer Architecture and Programming** ⛔
        - https://scs.hosted.panopto.com/Panopto/Pages/Sessions/List.aspx#folderQuery=%22parallel%22&folderID=%22a5862643-2416-49ef-b46b-13465d1b6df0%22
    - **Database Systems - In Memory** ⛔
        - https://scs.hosted.panopto.com/Panopto/Pages/Sessions/List.aspx#folderQuery=%22database%22&folderID=%22ed2ee867-9610-4bad-94af-5d12c2ea47cd%22
    - **Machine Learning** ⛔
        - https://scs.hosted.panopto.com/Panopto/Pages/Sessions/List.aspx#folderQuery=%22machine%20learning%22&folderID=%2285e1b6bf-6ac9-4a92-a0de-aaf8c2dd2418%22
- **Coursera**

- **Learning how to learn** ✅⭐
  - https://www.coursera.org/learn/learning-how-to-learn/home
- **Neural Networks and Deep Learning** ✅
  - https://www.coursera.org/learn/neural-networks-deep-learning
- **Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization** ✅
  - https://www.coursera.org/learn/deep-neural-network
- **Structuring Machine Learning Projects** ✅
  - https://www.coursera.org/learn/machine-learning-projects
- **Convolutional Neural Networks** ✅⭐
  - https://www.coursera.org/learn/convolutional-neural-networks
- **Sequence Models** ✅⭐
  - https://www.coursera.org/learn/nlp-sequence-models
- **Big Data Analysis with Scala and Spark** ✅
  - https://www.coursera.org/learn/scala-spark-big-data
- **Statistical Inference** ✅
  - https://www.coursera.org/learn/statistical-inference
- **Mindshift** ✅⭐
  - https://www.coursera.org/learn/mindshift
- **Machine Learning** ✅⭐👍
  - https://www.coursera.org/learn/machine-learning
- **How to Win a Data Science Competition: Learn from Top Kagglers** ✅
  - https://www.coursera.org/learn/competitive-data-science
- **Bayesian Methods for Machine Learning** ✅
  - https://www.coursera.org/learn/bayesian-methods-in-machine-learning
- **Natural Language Processing** ✅
  - https://www.coursera.org/learn/language-processing

- **Udacity**
  - **Scalable microservices with Kubernetes** ✅
    - https://www.udacity.com/course/scalable-microservices-with-kubernetes--ud615
  - **Intro to Machine Learning** ✅⭐
    - https://www.udacity.com/course/intro-to-machine-learning--ud120
  - **Deep Learning** ✅⭐
    - https://www.udacity.com/course/deep-learning–ud730
  - **Intro to Hadoop and MapReduce** ✅
    - https://www.udacity.com/course/intro-to-hadoop-and-mapreduce–ud617
  - **Front End Frameworks** ✅
    - https://www.udacity.com/course/front-end-frameworks–ud894
  - **Applied Cryptography** 👎
    - https://www.udacity.com/course/applied-cryptography–cs387
  - **Networking for Web Developers** ✅
    - https://www.udacity.com/course/networking-for-web-developers–ud256
  - **Configuring Linux Web Servers** ✅
    - https://www.udacity.com/course/configuring-linux-web-servers--ud299
- **Stanford**
  - **Compilers** ✅⭐
    - https://lagunita.stanford.edu/courses/Engineering/Compilers/Fall2014/about
  - **Mining Massive Datasets (MOOC lectures only)**

        - https://www.youtube.com/playlist?list=PLLssT5z_DsK9JDLcT8T62VtzwyW9LNepV
- **Practical Deep Learning For Coders**
    - http://course.fast.ai/index.html
- **Deep Natural Language Processing**
    - https://github.com/oxford-cs-deepnlp-2017/lectures/blob/master/README.md ✅⭐
- **DataCamp**
    - **Introduction to R** ✅⭐
        - https://www.datacamp.com/courses/free-introduction-to-r
    - **Data Analysis and Statistical Inference (R based)** ✅⭐
        - https://www.datacamp.com/community/open-courses/statistical-inference-and-data-analysis
    - **Basic Statistics (R based)** ✅⭐
        - http://www.datacamp.com/community/open-courses/basic-statistics
    - **Intro to Python for Data Science** ✅⭐
        - https://www.datacamp.com/courses/intro-to-python-for-data-science
    - **Inferential Statistics (R based)** ✅⭐
        - https://www.datacamp.com/community/open-courses/inferential-statistics
    - **Intro to SQL for Data Science** ✅⭐
        - https://www.datacamp.com/courses/intro-to-sql-for-data-science