Computer Science Self-Study Aids

Algorithms
- Online resources:
  - [Graduate course](http://www.csie.nthu.edu.tw/~csie97s201/courses/graduate/intro.html)

Numerical computing
- Online resources:
  - [Numerical Computing with MATLAB](http://www.mathworks.com/products/matlab/) by Cleve Moler
  - [Fundamental Numerical Methods and Data Analysis](http://www.mathworks.com/products/matlab/) by George W. Collins, II

Software engineering

Model development

Complex Networks
- *Networks: An Introduction* by Mark Newman.
- Online resources:
  - [Complex Networks course website](http://www.mathworks.com/products/matlab/)
  - [Algorithms of Large and Complex Networks](http://www.mathworks.com/products/matlab/) by Lerner/Wagner/Zweig. Online link:

Python

Matlab
- Online resources:
  - [Introduction to MATLAB](http://amath.colorado.edu/computing/Matlab/Tutorial/Intro.html)
  - [MATLAB Tutorial](http://www.mathworks.com/help/techdoc/index.html)

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