

Education:

The American University in Cairo . Class of 2016: B.Sc. Computer Science

Work Experience:

IBM . Software Engineering Intern . Jul 2014 - Aug 2014:

1. Trained Current Employees and Interns on How to use several IBMs Bluemix Cloud services
2. Designed a skeleton Mobile Application & API to work with Bluemix Cloud Services (Node.js . Sinatra - Ruby . Worklight)

CivilSoft . Front-end Web Developer Intern . Nov 2013 - Feb 2014:

1. Created the frontend of a web application which guides the user to setup the structure of his website
 2. Developed Javascript Plugins to be used in the development cycle
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Selected Projects and Achievements:

1. **Verilog Web IDE/Simulator** . Python 2.7 . RabbitMQ . Node.js . Sails.js . Postgres . Backbone.js: Experimental Verilog Web Editor and simulator divided into three main modules; the **core module** written in python and communicates with the **api module** (written in Node.js) through a message queue server which communicates with the **frontend module** (constructed with backbone.js)
 2. **Quine McCluskey Circuit Drawer** . Python 2.7 . Flask . Coffeescript . Backbone.js . Joint.js: Given the terms of the boolean function, minimizes the boolean function and draws the circuit. [Github](#)
 3. **Cache Simulator** . Coffeescript . Ember.js . D3.js . NodeWebkit: Simulates User Defined Types of Caches and automatically presents live Graphs.
 4. **MIPS Disassembler/Simulator** . Python 2.7.4 . Qt4.8 . PySide: Disassembles Binary MIPS files and Simulates The Product.
 5. **Linux CLI OS**: Built and assembled a linux OS from source using existing open source packages (kernel, awk, glibc .etc) without using existing Linux Distros.
 6. **Comic Hunter** . Python 2.7 . BeautifulSoup . Requests: Scrapes Popular web comic series like xkcd, cyanide & happiness and the oatmeal.
 7. **Competitive Programming** . Python 2.7 . C++: Finished 50 Problems on Projecteuler, ranked 2246 on Hackerrank.com, ranked 766 on Hacker.org and participated in the 2014 ACM - ECPC.
 8. **Pig Data Analysis** . Hadoop . Mapreduce . Pig . Java . R . ggplot: Using a Local installation of Hadoop and Pig analysed some properties of an approximately 375 GB of data and plotted it using R.
 9. **Digit Recognizer** . R: Using existing training datasets and K-Nearest Neighbours Algorithm, trained a model to recognize a handwritten digit with an average precision of 0.94.
 10. **Contribution to Open Source Projects on Github**
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Extracurricular Activities:

1. **Webmaster . Student Union . Fall 2012 - Spring 2013**: Single Handedly Designed, Developed and Maintained The Student Unions Website
 2. **Computer Science and Engineering Association . Fall 2012 - Spring 2013**: In a team of 3 people we designed, developed and maintained the CSEA website
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Languages and Technologies . From a familiar level to a very Good level:

1. Python . Javascript . Coffeescript . CSS . HTML . C++ . MIPS Assembly . R . Ruby . SQL . Erlang . Java . \LaTeX
 2. Unix . Node.js . JQuery . Git . Ember.js . Backbone.js . Sails.js . Express.js . Heroku . Bluemix . Grunt . Qt . Hadoop . MapReduce . Pig . D3.js . MongoDB . CouchDB . SQLDB2 . Cloudant . Rails
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Links:

GitHub: www.github.com/omarayad1	Google Plus: plus.google.com/+OmarAyad1
Facebook: www.facebook.com/omarayad93	Linkedin: eg.linkedin.com/in/omarayad1
Quora: www.quora.com/Omar-Ayad	Flickr: www.flickr.com/omarayad1/sets