

HAZEM NOMER

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I love to consider myself a computer scientist and a researcher. I started programming since I was 10 years old in Visual Basic, my early projects were music players and web browsers. Later I moved to web design in HTML and CSS. Since my High School days (2010), I have been interested in Computer Science and Mathematics. I co-founded a startup Impulse Labs in 2011. Now Impulse Labs innovates several deep learning projects.

EDUCATION

Faculty of Science – Alexandria University

Bachelor of Science (Computer Science and Statistics) (2012-2015)

- CGPA: 3.03
- Graduation Project: **Adaptive user interfaces** Grade: **A (Java and Android)**:
Used Recurrent Neural Networks (RNNs) to adapt mobile UIs to user needs.

Currently pursuing MSc. In Computer Science (2015-Present)

PROJECTS

- **Stor.ion: CRM software** PHP-MYSQL (June 2013- Feb 2014)
A CRM software (locally hosted) manage inventory, bills, customers, etc...
- **3-SAT Solver** PHP (Dec 2013)
A brute force algorithm for solving 3-SAT problem
- **Address Book** PHP-MYSQL (April 2013)
A simple address book (project for a Structures of Programming Languages)
- **Breast Cancer classifier** C# (June 2014)
A statistical classifier based on a concept I developed called Social based computation
- **Self-organized map** MATLAB (April 2013)
SOM implemented in MATLAB
- **Multiple Linear Regression** MATLAB (April 2014)

- Image Compression using wavelets MATLAB (April 2014)
- Word Sense Disambiguation (C#) MATLAB (June 2014)
- Fibonacci Sequence Graphics OpenGL (Dec 2013)
- Mars Scout Unity 3D (C#) (March 2015)

Developer of a 3D game simulates life on Mars Lava tubes.

Won in NASA SPACE APSS hackathon – Human Category

- GraLib Java (May 2015)

A simple graph library in java, implements basic graph algorithms (e.g. BFS, DFS, etc...)

- RNNS & LSTM Java (June 2015)

Using recurrent neural networks and long-short term memory in different applications (In progress)

ACADEMIC

I wrote a paper titled: **A semantic web parallel layer model**, submitted in October 2012 (rejected)

Interests: machine learning, neural networks, semantic web, deep learning, natural language processing, recurrent neural networks, intelligent user interfaces, algorithms and complexity..

LANGUGES

- I coded in C, C#, PHP, Java, Python.
- I used HTML5, CSS3, JavaScript, MYSQL, XML,RDF.
- I learned: Ruby.
- Familiar with: LIUNIX System administration.

AWARDS

NASA Space Apps Local winner in the Human challenge "April 2015"

VOULNTEER WORK

IEEE Alexandria Student Branch Website committee volunteer (January 2015 – Present)

Technical Committee Head at **Robabkia Team** (March 2015 – October 2015)

I taught a 5-days workshop "Web development" at **Egyptian Syndicate of Scientific Professions – Alexandria** (March 2014)

IEEE Alexandria Student Branch **ITW '15 Conference** Presenter.