

# MARWAN OSMAN

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## PROFESSIONAL OBJECTIVE

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To make a contribution in progressing computers intelligence through creating and building smart intelligent web and mobile applications. Searching and looking to bring the latest state of the art from academia, to design and build smarter intelligent and useful products.

## EDUCATION

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### **B. Sc. Computer and Systems Engineering** (2005 - 2010)

Faculty of Engineering, Alexandria University, Egypt. Cumulative GPA: 3.18

#### **Graudation Project "WNMI":** Web Networks and Mail Integrator

**Abstract:** A web framework integrating various social networks and mail providers, providing extensibility to any new coming network. WNMI is implemented in a web interface and a desktop interface featuring offline synchronization. The concept of the project is to adhere with the rapid pace of emerging soical networks and combine all the user's social streams in on user-friendly interface.

**Technologies used:** J2EE, JavaFX and client libraries for different social networks and mail providers.

### **General Secondary Certificate(G.S.C.)(Mathematics Division)** (2003 - 2005)

Saint Marc College, Alexandria, Egypt. Cumulative Score: 97%

## EXPERIANCE

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### **eSpace Technologies** - Junior Web Developer (July 2010 - Present)

- Developing cutting edge social applications with the Ruby on Rails stack.
- Project *Marginize*, <http://www.marginize.com> (August 2010 - May 2011)  
A social tool that adds a margin to any public webpage, enabling users to interact on top of it, checking in, adding comments and reading discussions about it pulled from social networks.
- Project *Nextly*, <http://nextly.com> (May 2001 - Present)  
A social streams browser that enhances the user experience browsing twitter, facebook and rss feeds, in a more modern way that is fast, efficient and user-friendly.
- Due to the nature of these 2 projects being developed for a startup company, my responsibilities were varying from fast prototyping on new features, front-end and back-end support for the features, adding analytics and measure data about users behaviours, and some system administration tasks.
- Participated in company's hack days, implementing ideas such as: 'The Industrial-Strength Audio Search Algorithm' empowering Shazam, an Android Time tracker app, a javascript tool to easily create guided tours for web applications.
- Presented Technical session for colleagues about 'Edge Rank Algorithm' used to populate the Facebook news feed feature, and 'Bloom Filters' and how they can be used to implement a trending topics algorithms like on Twitter.

### **ITWorx** - Software Quality Engineer - Intern (July - August, 2009)

- Worked on software testing automation on one of ITWorx products called I-Sales, using IBM Rational Functional Tester and writing test scripts in Java.
- Presented an introduction session to the basics of Java language to some of my team members.
- Contributed in defining a framework for future automation projects based on an object oriented framework for IBM RFT proposed by IBM.

## TECHNICAL SKILLS

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- **Good Experience with:** Object Oriented Programming, Design Patterns, Agile Programming.
- **Programming Languages:** Java, C/C++, Basic, 8086 Assembly, Python, Ruby.
- **Web Development:** HTML, CSS, JavaScript, XML, AJAX, JSON, JavaFX.
- **DBMS:** Microsoft Access, MySQL, SQLite, Oracle 10g.
- **Platforms:** Windows 95/98/2000/XP/Vista/7, GNU/Linux Ubuntu.
- **Mobile Platforms:** Symbian, J2ME, Android.
- **IDEs:** Eclipse, Microsoft Visual Studio.NET, NetBeans.
- **Digital Design:** VHDL, Xilinx, ModelSim.
- **Design and Graphics Software (Fair knowledge):** Adobe Photoshop, 3D Studio Max, Adobe Premiere, Adobe Macromedia Flash.

## PERSONAL SKILLS

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- Team Working
- Time Management
- Self Learner
- Working under pressure

## LANGUAGES

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- **Arabic:** Native
- **English:** Fluent (TOEFL iBT 97,2012)
- **French:** Fluent (DELTA certified,2004)

## EXTRA CURRICULAR ACTIVITIES

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- DIY projects hacking with Arduino.
- Enrolling in Coursera and Udacity online courses: AI, Machine Learning, Programming a Robotic Car, Computer Vision Fundamentals, Heterogenous Parallel Programming.
- Presented a 101 session for Information Technology Institute (ITI) about **Python and Google App Engine** (*May, 2011*)
- Participated in **Startup Weekend Cairo 2011**, Project **Jayyim** (*April, 2011*)
- Participated in organization of **Software Freedom Day@Alexandria University** festival (*September, 2009*)

Supervised a study group about Python.

Presented a session about "Programming under Linux in Python".

- Participated in **Microsoft Imagine Cup booth in the Faculty of Engineering, Alexandria University** (*November, 2008*)
- Attended **IEEE-ASST 3rd annual event "Leading your career, Leading your society"**, and associated workshop "Effective Time Management" (*September, 2007*)
- Attended **Algorithms and programming training for EOI** (*June - September, 2007*)

*Topics:* Graphs structure and algorithms, Backtracking, Geometric Algorithms, Binary Search Trees, Heaps, Dynamic Programming.