

<!DOCTYPE html PUBLIC "-//W3C/DTD XHTML 1.0 Strict/EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd"><html
xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="content-type" content="text/html; charset=utf-8" /><title>Andrew AbuMoussa's Resume</title><link
rel="stylesheet" type="text/css" href="http://androwis.com/resume.php"/></head><body><p>

pdf</p><div id="r"><div id="n">**Andrew Lateef AbuMoussa**</div><div class="tl">

Current Address</div><div class="t"> androwis@androwis.com </div><div class="tr">Permanent Address</div><div
class="tl">100 Tarnhill Dr, Flat Rock NC 28731 </div><div class="tr">828.290.5939 </div><div class="tr">100 Tarnhill Dr, Flat Rock NC 28731 </div><div class="s">

Education

The University of North Carolina at Chapel Hill Aug. 2005 – May 2009

B.S. Double Major: Applied Mathematics & Computer Science with Honors

Mathematics GPA – 3.69/4.00 Overall–3.42/4.00

Honors

Semifinalist in Carolina Entrepreneurial Challenge, Kenan-Flagler Business School at UNC-CH; 2010

University of North Carolina Honors Program; 2005 – 2009

State of North Carolina Tuition Scholarship; 2005 – 2009

Western North Carolina Regional Scholar, The Community Foundation of WNC; 2005

Glaxo-Smith-Kline Scholar and Research Grant; 2004

Skills

Selected Computer Architectures, Languages and Software

Operating Systems: Linux/Unix, Mac OSX, Windows

Core Languages: Java, Python, C, C++, Scheme, lisp, prolog

Web programming: PHP, Javascript/jQuery, JSP, J2EE, EJB, Struts

Mobile: Android SDK, iOS SDK

Databases: Cassandra, SQL, Access

Symbolic Computing: Mathematica, Matlab, Maple

Graphic Suites: Photoshop & Gimp, Sketch-Up

Drafting and Architectural: autoCAD, archiCAD

Spoken Languages

Bilingual in English and Arabic. (U.S. citizen) Advanced French. Basic Spanish & German.

Other Certifications:

Skydiving, Scuba, Belay

Major Projects

Medicare/Medicaid Voucher/Scheduling System - NC Department of Social Services (C#)

Volunteer project where I automated and optimized the voucher and scheduling system for medicare/medicaid patient transportation through a custom .NET application, then presented to the state government for state-wide use and implementation.

Senior Honors Thesis - UNC Chapel Hill, Department of Computer Science (J2EE)

Investigated modern interface design and then created Irys, an online auditory interface which provides visually impaired users with a more fluid, dynamic and accessible computing environment through a customized, single focus interface.

Analysis of the Stock Market - UNC Chapel Hill, Department of Mathematics (python)

Examined the stochastic nature of stocks and the results of model manipulation. The analysis concluded with proposed investment schemes and improvements to the Santa Fe Artificial stock market and the genetic algorithm with adaption models.

B-splines: Data Reduction - UNC Chapel Hill, Department of Mathematics (python)

Demonstrated the use of 3rd Order B-splines to compress images while maintaining high resolution.

Employment History

Lead Developer / Sys Admin IWANNA, USA, LLC, Asheville, NC Jan. 2010 – present

Managed the complete rebuild of a classified website that serves over 25,000 classifieds weekly

and generates over 1 million hits a month. The largest developmental focus was placed on the

user-interfaces and the networking of the individual advertiser's classifieds. iwanna.com

Proposed/developed an expansion that focuses on and supports socially aware projects and programs in the local community (http://iwanna.com/help)

Proposed/developed a marketplace for local businesses to manage and brand their inventories. (http://iwanna.com/marketplace)

Programming Consultant, </h2><h3> Bishara Textile Manufacturing, </h3><h4> Cairo, Egypt</h4><div class="d"> May 2008 – Sept. 2008</div>
Designed an online management tool for a 2000+ worker textile factory. The software manages all aspects of garment production, from worker output and factory capacity to scheduling design calendars while using a database back-end. Resulted in a 12% productivity increase.</h2>

Programmer & Draftsman, </h2><h3> Shamburger Design Studio, </h3><h4> Hendersonville, NC</h4><div class="d"> May 2007 – Aug. 2007</div>
Web Programmer: created a secure page so clients could access rendered designs
 Architectural draftsman for 10 projects in excess value of \$15 million
 Trained a new intern.</h2>

Architectural Intern, </h2><h3> Shamburger Design Studio, </h3><h4> Hendersonville, NC</h4><div class="d"> May 2006 – Aug. 2006</div>Apprenticed architect through all stages of design, from initial meeting with clients, to sketching the ideas, to final presentation of plans and bidding of project to contractor
 Draftsman using AutoCAD 2005, archiCAD, and Google’s Sketch-Up.</div><div class="s">

Social</h1><h2>

ChangeUP, </h2><h3> changeintheworld.org </h3><h4> Hendersonville, NC </h4><div class="d"> Dec. 2009 – present</div> Developing a micro-donation system that allows people to round up transactions and donate the money to charities of their choice. Currently implemented with iwanna.com and scenedipity.com. </h2>

IT Volunteer, </h2><h3> Child and Family Resource Center, </h3><h4> Hendersonville, NC </h4><div class="d"> Sep. 2009</div>
Repurposed 6 old computers and one laptop which weren't being used by the non-profit so the computers could be donated to local families and schools. other work per request (35hrs).</div>
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