

YOUSSEF B. CHAKER

youssef.chaker@gmail.com

(703) 473-9838

COUNTRIES OF CITIZENSHIP

I am a citizen of Lebanon and the U.S.A., and am fluent in Arabic, English and French.

EDUCATION

2008 **University of Virginia, School of Engineering and Applied Science**, Charlottesville, VA

Degree: B.S. Computer Engineering

Thesis: Designing and Building an Energy Responsible Data Center

Cumulative GPA: 2.85 / 4.00

Major GPA: 2.94 / 4.00

Related Coursework: Advanced Software Development, Algorithms, Computer Architecture, Computer Networks, Computer Organization and Design, Electronics, Operating Systems, Signals and Systems I, Software Development Methods, UNIX Essentials Featuring the Solaris 10 Operating System (SA-100-S10)

EDUCATIONAL PROJECTS

2007 – 2008 **Multi-Stage Pipeline**

Participated in a two-part design project of a multi-stage pipeline for a custom Assembly based language processor. The first part consisted of an individual design of a 5-stage 32-bit pipeline and the second part consisted of merging the work of four individuals into one team project which was then modified to become a 16-bit pipeline and upgraded to use design techniques for faster performance.

2007 **Control System for a Mobile Robot**

As a member of two teams of 4 students each, I helped develop a software control system for a hypothetical organization developing a Mars Rover or the like. The software system was composed of 3 main components: a control station, an on-board robot control and a communications component. The system controlled the robot movements, and the communication between the control station and the robot. It was developed in C#.

2006 **MP3 Web Application**

As a member of a team of 3 students, I developed an MP3 Web application using Java. The application's main features were retrieving a list of MP3 files from a URL, sorting the files into a list, creating a play list, saving the files, and playing the individual MP3s.

AWARDS

2005 **Honor's List**, University of Virginia

Presidential Scholar, Northern Virginia Community College

2004 **Dean's List**, Northern Virginia Community College

TECHNICAL SKILLS

Programming Languages: Java, C, C++, C#, Ruby, Python, JavaScript, PHP, VHDL, x86 Assembly

Tools and Applications: Eclipse, FPGA Advantage, Mathcad, MATLAB, PSpice, Visual Studio

WORK EXPERIENCE

2008

Software Developer, OpenSource Connections, Charlottesville, VA

Which Ruby CMS Should I Use? <http://whichrubycmsshouldiuse.com>

Personal project where I set out to explore Ruby CMS products; shared my findings with the rest of the open source community

National Veterans Conference: <http://www.nationalveteransconference.com>

Ported legacy HTML code to a Drupal CMS Web site; implemented additional site features such as video integration and user registration

Newswise: <http://www.newswise.com>

Ported legacy PHP code to the Zend MVC framework; updated search functionality to use the Solr search engine; integrated AJAX into the user interface; improved the user interface in parts of the site; integrated Test-driven development and Agile methodologies with the Newswise in-house team and our development process; wrote a Ruby script to import legacy data to a new database

Madison Digital Image Database

Helped integrate exporting and importing images to Flickr in python for the new MDID-3 version using the flickr API and the Django framework

Sweet Briar College: <http://www.sbc.edu>

Ported legacy PHP code to a Drupal CMS Web site; implemented redesign of the site; wrote custom modules to implement specific client functionality

American Association of Retired Persons (AARP)

Developed a Ruby on Rails Web service that collects user data and calculates their relative “misery” based on their location and cost of living; developed its equivalent Facebook and OpenSocial applications

Cosmo

Worked on a Ruby on Rails application that fetches the properties of chemical substances and stores the information in a MySQL database; developed search functionality that allows users to search for substances matching a certain query on the selected properties

Madison County School

Wrote a technology road map for the school's IT department; advised on how to go about the transition to a “greener” data center

2007

Intern, Computer Sciences Corporation, Chantilly, VA

Researched and wrote a white paper about “greening” data centers; worked in the Enterprise Network Management Services Center of Excellence

2006 -2007

Teaching Assistant, University of Virginia Department of Computer Science, Charlottesville, VA

Answered Java related questions in weekly lab sections; graded homework and exams; held office hours

2006

Intern, Splendor Telecom, Beirut, Lebanon

Developed a graphical user interface for a monitoring system