

# YOUSSEF B. CHAKER

youssef.chaker@gmail.com

(434) 260-1466

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## COUNTRIES OF CITIZENSHIP

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

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## EDUCATION

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**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)

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## EDUCATIONAL PROJECTS

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**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

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## AWARDS

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**2005**      **Honor's List**, University of Virginia  
**Presidential Scholar**, Northern Virginia Community College

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

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## TECHNICAL SKILLS

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

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

**Development Methodologies:** Agile, Scrum, Test Driven Development, Behavior Driven Development

## WORK EXPERIENCE

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**2008**

**Software Developer, OpenSource Connections, Charlottesville, VA**

**TicketFly:** <http://www.ticketfly.com>

Implemented a scanner application on a Windows Mobile 6 platform in .Net to scan event tickets at venues; integrated reporting functionality to the scanner application; developed communication process between scanner and server to ensure updated information

Reengineered the TicketFly user accounts application using Grails to serve a central independent OAuth service provider to other TicketFly applications; wrote a WordPress plugin to serve as a Oauth consumer of the TicketFly API; integrated the Facebook Graph API functionality into the account application

**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 the 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