

## CONTACT

INFORMATION 10 East Read St., Apt. 2F  
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CITIZENSHIP USA

## EDUCATION

**M.S. in Bioinformatics**

Dec 2009

- *Department of Biostatistics, Bioinformatics, and Epidemiology* at the Medical University of South Carolina, Charleston SC USA
- Focused on text-mining, machine learning, and natural language processing
- Work resulted in two publications in peer reviewed journals, with more articles in submission
- Gained strong background in statistics and statistical theory
- Research based thesis: *Literature classification using a modified Ising Model*

**B.A. in Computer Science**

May 2005

- College of Charleston, Charleston SC USA
- Performed research using Artificial Neural Nets to analyze music and predict the human perception of pleasantness
- Led a research project to create a basic proof of concept distributed replacement system for email (SMTP).
- Minor in Music
- Graduated *cum laude*

TECHNOLOGY  
EXPERIENCE**Linux:**

- Worked as independent technology consultant for clients including the Carnegie Endowment, the Washington Post, and PBS
- Used Linux exclusively for almost a decade, both at home and at work
- Have over 6 years of experience administering company production servers running Linux
- Created multiple custom Linux distributions for clients to suit various needs on exotic hardware
- Created and administered a 65 node Linux high-performance computing cluster

**Web Development:**

- Have experience with many web (most W3C) standards including XHTML, CSS, and Section 508
- Set up HTTP load balancing for hosts that handle hundreds of requests/second
- Have extensive knowledge developing with the web frameworks Ruby on Rails and Django
- Have extensive knowledge of the underlying protocols HTTP(S) and TCP/IP
- Used and written JavaScript libraries and am proficient in JS programming
- Have many years experience programming PHP, Python, and Ruby for the web

**Additional specific technologies:**

- Linux Distros: Redhat/Fedora, Ubuntu, Debian, Suse, Slackware
- Webserver: Apache (maintain an open source Apache module and have knowledge of Apache internals)

- CMS/Frameworks: Ruby on Rails, Django, Plone, Drupal
- Databases: PostgreSQL, MySQL, SQLite, BDB, BDB-XML, eXist, CouchDB
- Scripting: JavaScript, Ruby, Python, Perl, BASH, C Shell, R, some Lisp
- Compiled Languages: C, C++, Java, C#
- SGML based: XML, HTML, XHTML, RSS, ATOM, OWL, RDF, DOM, SAX, XSL, XPath, WSDL, XMPP
- Protocols: XMPP, HTTP(S), SMTP, SOAP, REST
- Operating Systems: Linux, Irix, Unix, Windows
- Revision Control: Subversion, CVS
- Other: Clustered Computing, Postfix (mail server), BIND, NFS, LDAP, many Wiki implementations
- Talks: SC Ruby Conference (Columbia 2008), College of Charleston (2007, 2008), International Federation for IT and Travel & Tourism (Ljubljana, Slovenia 2007)

RELEVANT  
PROFESSIONAL  
EXPERIENCE

**Senior Software Engineer / Webmaster** March 2010 - present  
Washington Post / Foreign Policy Magazine, Washington DC USA

- Was responsible for maintaining a high traffic Drupal website, foreignpolicy.com
- Assisted business staff with traffic analysis and large-scale marketing campaigns
- Developed software utility tools for use in-house and by readers

**Software Architect / Managing Partner** January 2006 - May 2009  
Butterfat, LLC, Charleston SC USA

- Administered company production and development Linux servers
- Directed and assisted on projects that included creating custom Linux distributions, custom web development, and load balancing high-throughput Linux servers
- Clients include the State of South Carolina, the Washington Post, and American Media Services

**Software Architect** May 2007 - August 2007  
Online Game Group, LLC for [chesspark.com](http://chesspark.com)

- Assisted in Linux load balancing and Apache HTTP traffic analysis
- Created Jabber (XMPP) tools, including a bot that performed language analysis
- Created the administrative interface to manage user roles and business logic for tens of thousands of users

**Software Architect / Instructor** June 2005 - May 2007  
Medical University of South Carolina, *Office of the Provost*, Charleston SC USA

- Administered portion of university Linux web servers
- Advised the Office of the Provost and the Office of the President on technology matters
- Created web-based (often open source) projects to serve the general needs of the university (16,000 staff, as well as students)

**Software Engineer** January 2004 - June 2005  
Monolith Software Solutions, Inc., Charleston SC USA

- Maintained Linux/Apache/MySQL/PHP/Perl environment on company servers
- Project leader for creating custom company Linux distribution
- Developed web-based financial reports for clients