

CONTACT

INFORMATION 1034 Girard St NE
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RELEVANT

EXPERIENCE

Technical Lead / Manager, Data Science Unit 10/2010 - present

LivingSocial, Washington DC USA

- Co-founded Business Intelligence Department, founder/director of Data Science Unit
- Direct efforts to create, execute, and evaluate hypothesis in areas ranging from loyalty program designs to user acquisition source comparisons
- Apply machine learning techniques for text classification, prediction, and analysis
- Responsible for data warehouse and associated reporting / analysis applications (Ruby / Rails / Hadoop / Hive / R / Python)

Sr. Software Engineer / Web Director 3/2010 - 10/2010

Washington Post / Foreign Policy Magazine, Washington DC USA

- Responsible for maintaining Drupal website, foreignpolicy.com
- Managed development/design team
- Developed software utility tools and websites for use in-house and by readers
- Worked closely with editorial staff to increase user engagement

Software Architect / Managing Partner 1/2006 - 5/2009

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 5/2007 - 8/2007

Online Game Group, LLC for chesspark.com

- Assisted in Linux load balancing and Apache HTTP traffic analysis
- Created Jabber (XMPP) tools, including a bot that performed language analysis
- Created user admin interface in Django to manage over ten thousand users

Software Architect / Instructor 6/2005 - 5/2007

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
- Created web-based (often open source) projects to serve the general needs of the university (16,000 staff, as well as students)

Software Engineer 1/2004 - 6/2005

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

TECHNOLOGY
EXPERIENCE

Linux:

- Worked as independent technology consultant for clients including the Carnegie Endowment, the Washington Post, and PBS
- Have over 8 years of experience administering production Linux servers
- 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
- HTTP load balancing (Varnish / haproxy / etc.)
- Have extensive experience 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)
- CMS/Frameworks: Ruby on Rails, Django, Plone, Drupal
- Databases: PostgreSQL, MySQL, SQLite, BDB, BDB-XML, eXist, CouchDB, HBase, Hive
- Scripting: JavaScript, Ruby, Python, Perl, BASH, R, PHP, some Lisp / Erlang
- Compiled Languages: C, C++, Java, C#
- SGML based: XML, HTML, XHTML, RSS, ATOM, OWL, RDF, DOM, SAX, XSL, XPath, XMPP
- Protocols: XMPP, HTTP(S), SMTP, SOAP, REST
- Operating Systems: Linux, Irix, Unix, Windows, OS X
- Revision Control: Git, Subversion, CVS
- Other: Hadoop, Clustered Computing, BIND, NFS, LDAP
- Talks: SC Ruby Conference (Columbia 2008), College of Charleston (2007, 2008), International Federation for IT and Travel & Tourism (Ljubljana, Slovenia 2007)

EDUCATION

M.S. in Bioinformatics

12/2009

- *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 three publications in notable peer reviewed journals
- Gained strong background in statistics and statistical theory
- Research based thesis: *Literature classification using a modified Ising Model*

B.A. in Computer Science

5/2005

- College of Charleston, Charleston SC USA. Graduated *cum laude*.
- 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).