**Mr. Jeremy Donson - New York City Hands-On Engineering Roles \*Only\***

CANDIDATE SUMMARY  
Current Role: Development Team Support Testing & Platform Automation Engineer - Bank of America

CERTIFICATIONS PENDING  
- CloudForms Cloud Orchestration and Management (downstream from manageIQ)  
- AWS Professional Cloud Architect  
- OpenStack IAAS Private Cloud Administration  
- RedHat OpenShift App & OS Container Hosting Platform  
  
CERTIFICATIONS  
- Enterprise Database Administrator & Database Developer: MySQL  
- Enterprise Database Administrator & Database Developer: Oracle  
- RedHat 6 Linux Systems Administrator   
- Apple OS X Certified Systems Administrator

EXPERIENCE  
**Development Team Support Testing & Platform Automation Engineer**Bank of America, New York City. March 2016 - Present   
Senior Dev Ops & OpenStack R&D Automation Engineer Automation (python/bash) of bare-metal provisioning (BMP) and OpenStack provisioning and deployments. Manual testing, debugging and team coordination of new releases of BMP, OpenStack (mitaka) and other related components. Tools: RedHat Linux, bash, python, mysql, OpenStack, git, foreman, IDRAC, Ansible, puppet, docker, coreos, Jenkins. OpenStack components: Keystone, Glance, Nova, Neutron, Cinder, Heat, Horizon, Tempest, Trove.

**Development Operations Engineer & Technical Project Manager at Credit Suisse -** May 2015 - February 2016  
Hired to plan, manage and support migrations of multiple high-speed algorithmic trading apps from external vendor into internal low-latency network data center with "naked access" to trading exchanges. Constructed app migration and testing plan with tight time window, coordinating with multiple internal business units and external vendors . Migrated and tested apps, assisting development teams and operations engineers. All migration goals were met on time, and there was no impact to the business, to developer workflows, nor to externally connected clients. Hands-on engineering included deployments, configuration management, release management, code testing, dev support, log aggregation.   
DevOps Tools: Python, Vagrant-Puppet-Ansible, RHEL6 Linux, AWS, bash-zsh, svn, git-github, C++, MySQL.

**Dev Ops Engineer, DBA & Software Architect at Adprime Media**  
December 2014 - March 2015 (4 months) Located in New York City's Downtown Financial District, Adprime Media is a rapidly growing leader in online healthcare and pharmaceutical marketing campaigns. Adprime Media's Health Marketing Exchange Network allows advertisers to optimally target publisher traffic with highly strategic web marketing campaigns. Sales, IT, Internal Web App and Web Developer requirements were escalating rapidly, and their technical staff needed to quickly grow. In addition to working through regularly scheduled support and developer requests, we standardized their LAMP and MEAN stacks and trained their development team to use git/github, as well as leverage database technologies and services. I was hired as a short-term LAMP Engineer and Drupal Developer, and this contract extended further than we had initially planned.

**Open Source LAMP Engineer at The Economist**   
July 2014 - October 2014 (4 months) Supported IT, development, engineering, architecture of LAMP environment with large and geographically distributed developer and engineering teams. Provided complete hands-on solutions for systems and database scaling, failover, notifications, alerts, security, new dev on-boarding, testing, CDN engineering. Moved to new version of MySQL using InnoDB.

This top-tier magazine with huge international audiences had four major challenges: 1. Migrate to Drupal 7 Web CMS, as Drupal 6 was becoming obsolete. 2. Move to source code management using git and github. 3. All possible ISP hosting services needed to be migrated to AWS.

4. Turn a print-first publishing effort (since 1850) into a responsive mobile-first design initiative.

Each of these major tool and workflow changes was achieved on deadline, in coordination with teams in London and New York, without interrupting regular development coding efforts.

**Database Architect, Engineer & Developer at Google -** March 2014 - June   
Data and development solutions for the music rights division of Google Play, formerly known as RightsFlow.com. Complete MySQL fail over data center planning, scheduling, testing and implementations. All recoding required for MySQL instance upgrades from version 5.1.x to version 5.5.37. Additionally, all recoding required for MySQL instance upgrades to SQL\_MODE='TRADITIONAL' and INNODB STRICT mode. This included many stored procedures, bash scripts and python apps. All production changes were of \*\*no\*\* adverse impact to production. Trained staff to write MySQL code using best practices and team dev using git.

Customized federated dba-dashboard (bash, git, php, python) for all database host statistics and database processing job tracking.

**CMS Architect, Engineer & Internal IT Manager at Centric Digital:** October 2013 - February 2014  
Architected custom enterprise Drupal 7 Content Management System solutions for two giant non-profit organizations. Gathered all tech reqs from client Marketing, IT and Dev staff for federated sites from 6+ large sites in two nations. Working directly with clients, completed all technical deliverables for the first Statement of Work (SOW 1). Provided technical sales support and engineering for Open Source Software (OSS) Content Management System (CMS) platforms. CMS custom solutions include distributed event fundraising campaign workflows, with federated and local strategies for print, web, email, social networking, mobile messaging. Designed logical data models for federated governance of distributed campaign content. Created CMS-CRM technical enterprise integration project plans across heterogenous LAN/WAN network environments, including LAN and WAN monitoring tools.

Proposed Second Statement of Work (SOW 2) with complete detailed technical project planning for highly distributed systems, software, engineers and developers. Provided detailed schematics with budgeted tasks to pave roadmap with open source hardware, software, and services. Supported custom Drupal 7 CMS theming template creation. Assembled required custom CMS features into build for proper choice of Drupal modules, themes and staff workflow tools.

Made business case for OSS support/migrations/management and for integrated Dev Ops + Production LAMP stacks. Compared CMS platforms and hosting vendors with wide range of Marketing and IT criteria, including Gardner Group Study reviews. Proposed custom non-profit Drupal 7 distribution for CMS-CRM integration testing: OpenOutreach.org Additionally, as tech lead for Centric Digital's CTO, forged Centric Digital's first internal IT dept by providing all hardware and software support for Apple OS X systems and mobile devices, including Android. Trained and supported Centric Digital IT Manager in all aspects of Apple systems management.

**Director of Web Services and Data Engineering at LocalVox** May 2013 - September 2013  
LocalVox provides data-driven local web marketing for rapidly-growing businesses to extend their local online marketing presence. Reviewed all code for several cities, to be federated into nation-wide software service architecture. Production code architecture and DevOps Infrastructure engineering. Software Engineering, QA, DevOps, Git, GitHub, and Code Promotion Workflows. Reengineered Drupal 7 site for nation-wide syndication of localized mobile and web content. Provided all 24/7 operations support team management, production support and code promotion. Corporate IT security & host management. Logical and physical network database design, admin, engineering. Coordinated all web service vendors. Supported LocalVox Marketing, Sales and Customer Service systems requirements. Network Linux server administration and LAMP engineering: AWS, puppet, drush, d7 module development. Bash, php + MySQL scripts, web apps, benchmarking and app profiling, monitoring and tuning. Team dev support. Web Services API Architect. Data Services API Architect. Data backup and recovery. Security, Performance, Statistics.

**Drupal Architect/Developer and Big Data Engineer at CPX Interactive**  - February 2013 - April 2013  
Drupal Architect + LAMP Engineer   
MySQL Data Center Provisioning and Management   
Big Data Hadoop Senior Systems Engineer   
• Drupal 7 and LAMP Engineering, Hadoop, R, Puppet.   
• Amazon, Aegir, Drupal and Git enterprise integration.   
• Cloudera Enterprise Manager Admin and Dev Training

**Web Systems, Architect and Data Engineer at Columbia University**   
Back End Drupal Developer and LAMP Web Systems Engineer   
• Network, Systems and Application Architect   
• Drupal 7 Module Development   
• Linux, Drupal and Git enterprise integrations.

**Software Engineer at ThinkDrop Consulting LLC**

June 2012 - September 2012 (4 months) Linux, Git, Aegir and Acquia Drupal enterprise integration for three NYC organizations, including a non- profit, a school and a design agency.

**Drupal Developer and Architect at American Media**  June 2012 - July 2012  
Dev Ops Engineering for code promotion, testing and change management.   
Supporting multiple magazine migrations from Drupal 6 to Drupal 7.   
Writing several custom Drupal 6 and 7 modules for publishing.

**Drupal Architect, DBA, LAMP Dev Ops Engineer at Penton** - February 2012 - May 2012   
Focus on scale-up of Data Center Operations using MySQL. Host/Database deployment, testing, recovery and query tuning. Replication and network clustering. Migrating about 75 large active sites to Drupal 7.x in ~6 months, sans adverse impact to the business.   
MySQL database migrations and custom platform integrations. Coordinating better change management policies and designing tools. Architect stored routines in Core Drupal 7 API to reduce PHP code complexity and improve performance. Support operations staff to ensure optimum system stability and performance.

**Software Architect and Operations Engineer at Wendr** - January 2012 - April 2012  
Wendr is the NEW iPhone Net App that helps you and your closest friends plan what you are doing tonight.   
- MySQL/LAMP Operations Data Center infrastructure design.   
- iPhone iOS 5 ObjC Application Architecture and Testing - LAMP Server REST OOP API Architect   
- Big Data Warehouse Analytics Engineering   
- Operations Stats, Thresholds and Notifications.  
- Systems Testing: Benchmarks and Load Tests  
- Network, Systems and Database Engineering

**Database Systems Engineer & Data Warehouse Architect at Barnes & Noble, Inc.**  January 2011 - October 2011  
 Clustered MySQL Engineer: Architected, deployed & migrated dozens of MySQL instances. Drupal- LAMP-Java Team Dev Ops Engineer: Testing logic & performance while promoting code thru git repos. Multi-Petabyte Data Warehouse Engineer/DBA: Aster nCluster & MicroStrategies data analytics. Search Engine Marketing & Optimization Project: Logical & physical data architect for semantic retail search analytics project.

**Technical Data Engineering & Software Architecture Consultant, NYC -**January 2009 - December 2010

**adMarketplace, Inc**All Network Data Operations, 24-7. Python, PHP + Stored Procedures + SEO-SEM API. Provided all back-end network architecture & dev team support for online search keyword exchange. MySQL & R Stats Data Warehouse Automation: InfoBright + R.

**Yahoo, Inc / RightMedia, Inc**   
Advanced Drupal 6.x & PHP 5.x Team Dev Web App API Integration. MySQL 5.1 / 5.5 Upgrades; Advanced Stored Procedure Dev and Tuning. Designed benchmarks for massive scaling of network grid data operations. Supported Drupal and LAMP apps for many dev teams, including several software localization and internationalization teams.

**Athena Capital Research LLC**   
Network Database Engineering for Multi-Petabyte Financial Service Trading Systems. Trading Systems Data API Architecture & Performance Monitoring Tools. C++/Ruby Dev Team Code Testing & Back End Renovation Sans Production Impact. PHP + Stored Procedures + SEO-SEM API. All Network Data Operations, 24-7. Provided all back-end network architecture & dev team support for online search keyword exchange. MySQL & R Stats Data Warehouse Automation: InfoBright + R.

**Senior Database Administrator & PHP Developer at Hearst Digital Media**  February 2008 - September 2008  
Supported 20+ instances of MySQL 24/7 using InnoDB & Replication, including code testing & change management. All performance tuning and network failover solutions designed for maximum performance, uptime and fast recovery. Built PHP Web Monitoring & InnoDB Stats Tracking Tools. Architected MySQL Data Warehouse for Weekly Analytical Demographics & Statistics Reports

**Drupal Architect, Developer, LAMP Engineer at Rodale Publishing** April 2007 - January 2008   
Giant magazine publisher with no LAMP Experience decides to bring Drupal 6.x in-house. With team of Drupal developers, provided complete migration support from legacy proprietary CMS to LAMP stack. Complete Oracle 10i => MySQL 5.0 Migration Engineering, Features Integration and Testing. Coordinated with Rodale LAN Unix and Java dev teams to bring Drupal / LAMP stack in-house. Taught existing Oracle DBA’s how to manage and troubleshoot network MySQL 24/7.

**K-12 Test Prep Trainer & Coach / Math Teacher at Stanley Kaplan, Inc. & NYC Public Unified School System** September 2004 - March 2007 (2 years 7 months)   
Trained principals and faculty across NYC to engage kids in mastering K-12 test prep strategies. Built Open Source MySQL statistical data warehouses from raw NY State exam and student performance data.

**Network Media, Publishing & Telephony Test Lab Manager / Engineer at Miller Freeman: 2002 – 2004**  
Designed and managed test laboratory focused on cutting-edge network media, publishing and telephony technology. Engineered all systems testing to improve trade shows, corp infrastructure and tech mag review writers. Coordinated promo vendor tools / frameworks for system load testing, application profiling and benchmarking. Wrote many published articles on network server throughput and parallelization of database server threads.   
  
**Custom Data Warehouse Architect, Developer & Administrator  
JP Morgan / Chase Manhattan Bank: 2001 – 2003 / CitiBank, Inc: 1999 – 2001  
Hired by CitiBank Marketing Division to audit massive batch processing by Acxiom, Inc.**Developed auditing scripts to verify, track and report errors changes in batch inputs and outputs.  
This evolved into internal data hosting and reporting platform for historical time-series data trending.  
Tasked by CitiBank Management to migrate historical data into new in-house Custom Time Series Data Warehouse.  
This represented about ten years (2+ petabytes) of credit card demographics and financial banking data.  
- Automated external vendor batch processing audits: bash + php + oracle  
- Validated all raw archived data in place during evening vendor maintenance windows.  
- Set up a RedHat Linux Data Warehouse system with massively parallelized disk io, running Oracle 9i.   
- Devised flexible logical models and performant physical models to support ongoing time-series analytics.   
- Migrated all raw historical data to dedicated local Linux / Oracle Data Warehouse system.   
- Developed PL/SQL Time-Series Warehouse REST API + Aggregation Schemes + CSV Export + Browser Tools.   
- Trained many developers to create consistent and performant tools to leverage historical trends.  
- Validated Logical and Performance Requirements to the Satisfaction of Bank Management and Vendor.   
- Automated daily data migrations, plus all daily, weekly/monthly/quarterly Data Warehouse Analytics reports.   
- Trained IT department staff to manage data warehouse validations, loads and scripts.  
**Network Color Media Processing Systems Engineer at Sun Microsystems: 1997 - 1999**   
Network unix systems engineering and integration for digital color media production studios.   
Custom server disk storage subsystem design. Unix scripting and customized server workflow support.

**Biomedical Network Software Engineer at Gilead Sciences: 1994 - 1997**All systems, data & media support for expert biochem, medical and legal pharma research teams.  
Focus on spectrophotometry and histological color imaging for scientific publishing & presentations.

**Molecular Medicine Research Associate at Sugen, Inc: 1992 – 1994**  
Performed research experiments to structurally characterize genetic switches for certain kinds of cancer.   
Assisted IT department and learned biotechnology statistics software packages and Oracle database development.  
http://en.wikipedia.org/wiki/SUGEN

**Biochemistry Research Associate & Biochemistry Professor, University of San Francisco: 1990 – 1992**  
Performed extensive biochemistry research with Dr. John Cobley, PhD.  
Goal: To better characterize color-sensitive genetic switch in cyanobacteria Fremyella Diplosiphon.   
My work with Dr. Cobley's team was published in scientific journals and I presented the results at the Asilomar Biotechnology Conference in 1992 at UCSC. Taught Laboratory Biochemistry to Nursing Students for two years.

EDUCATION

**Columbia University, NYC: 2000 – 2002**Enterprise Application Development, Database Analysis, Design & Development Program.  
Complete logical and physical database administrator training, followed by multiple DBA certifications.  
  
**University of San Francisco - Department of Biochemistry**  
Pre-Med, Biochemistry & Molecular Genetics: 1990 - 1993   
Published internship research findings with Dr. John Cobley, PhD.  
Taught nursing biochemistry for two semesters.   
  
**University of California, San Francisco - School of Medicine**  
BS, Molecular Medicine & Biochemistry: 1990 - 1993   
Noted Professors: Dr. Bruce Alberts, Dr. Michael Bishop, Dr. Harold Varmus  
  
**Sarah Lawrence College**BA, Philosophy, Math and History of Science, 1986 - 1990   
  
Interests   
- Open Source Tools & Workflows  
- Support & Training of Web Development Teams  
- Support & Training of Dev Ops Engineers  
- Data Architecture, Modeling & Engineering  
- Software, Education, Math, Biochemistry  
- Jazz, Cooking, Gardening  
  
Skills & Expertise

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