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| Mike Nickaloff [mike@datafault.net](mailto:mike@datafault.net) [www.datafault.net](http://www.datafault.net/) (510) 828-1089 [Cell] |

* 15 Years of experience working with Linux, NGINX, MySQL, and PHP
* Expert Programmer
* Expert Linux Administrator
* Cloud / AWS Migration Professional
* Current App In Development:  
  [https://github.com/mikeNickaloff/](https://github.com/mikeNickaloff/TowerDefense-FullCommand-v2)GenericWebPlatform
* Personal Website:  
  https:////www.datafault.net

## Technical expertise / Hardware equipment experience

* CISCO 5 Series Routers
* CAT 5/6 Crimping, Installation, Troubleshooting
* Router Hardware Troubleshooting, Physical Repair
* Laptop, Computer, and other Electronics Repair, Upgrade, Circuit Replacement
* Hardware Device Troubleshooting using Test Benches
* Deterministic Network topology configurations (STAR, RING, ETC) For Speed/Efficiency
* Securing Networks using Segments and Subnets
* Intrusion Detection Systems, and Intrusion Prevention Systems
* Firewalls
* CISCO Modules for extending features
* Rack Mounts / Server Farms
* Redundant / RAID5 Systems
* Multiple Endpoints for network reliability
* Distributed Load Network Systems
* Apple/AppleTalk
* Documentation / Tracking of Hardware Assets on Large Scale

## Software-related expertise (network/programming/configuration)

* Network configuration for large networks with multiple endpoints.
* IP Address assignment / delegation for LAN and for WAN
* Configuration of DNS Name Servers for any size network
* Advanced Knowledge of HTTP Server Configuration for Apache / nginx
* VMWare, VirtualBox, QEMU, Any other Virtualization Software for Desktop use and for VPS Host
* Configuration/implementation of DHCP, FTP, SAMBA, Active Directory, Apple Share, Windows Shares, SAN/NFS/NAS, Secure File Systems, Encrypted File Systems, Segmented (chrooted) File Systems, and Virtual File Systems.
* Strong Knowledge of configuration, implementation, and optimization for MySQL, MS SQL Server 2008, INNODB, PostgreSQL, MariaDB, and many other SQL Servers.
* Strong knowledge of Microsoft Exchange Server, POP, SMTP, and IMAP (both SSL/TLS).
* Working knowledge of Automation/Test Scripts (bash, python, c/c++)
* Considerable knowledge in programming in C, C++, Python, bash (invaluable), node.js, PHP, and also in Go Lang (Google’s Brand New Server Side Programming Language [2012 Release] )
* MS Office, Photoshop, Database Software, Virus Scanners, Logon Scripts, Security/Monitoring Tools
* Quality Assurance Methodologies such as Test Cases and Use Scripts
* Database Administration Such as Automated Backup, Archiving, Retrieval, Reliability Testing, Scaling, Distributed Data Sources, Data Ware Houses, Model-View-Controller Framework, API Creation/ Implementation, Load Balancing, Integrity testing, and Database Design.
* Upgrading, Updating, Backing-up, and Securing Critical Systems without interrupting service.
* Setting up fall back services to ensure overall responsiveness of network services.
* Write Code in HTML/ Javascript / jQuery / CSS and more!
* Experience with Puppet, puppet Master and other configuration automation frameworks
* Very familiar with C++ [know how to write multi-threaded applications that are secure and have low overhead resource use]
* Extremely comfortable working with Linux and Unix Systems (**SSH, RPM, ETC, coreutils**)
* Well-versed in critical Linux security practices such as setuid, chroot jail, file permissions, firewall configuration, apache modsecurity rules writing, SSL/certificate configuration, PHP configuration/hardening, MySQL Security, iptables configuration, RFC
* Very familiar with vulnerabilities that can be created by user configuration errors for: PHP, MySQL, bash, sftp, ssh, cgi-bin, bind, apache, SMTP POP3, samba, and SSH.
* Experience with troubleshooting many different server related issues such as performance, connectivity, and correcting rules which create false positives.
* Easily customize any Kernel configuration or even custom compile a kernel based on specifications
* I can automate any task in order to accomplish a week’s worth of work in just a few minutes,
* Able to optimize production servers to maximize performance based on the server’s role
* I am well-versed in Javascript as a general language
* I have many years of experience building front-end applications using Javascript libraries such as **angular.js, jquery**, **three.js**, **bootstrap.js**, **knockout.js**, and **many others**.
* Experience creating: data connected apps, embedded web applications, cloud storage applications, angularJS applications, ajax-based single page web apps, interactive multiplayer web pages that use EventSource/WebSockets
* Lots of experience writing code that supports responsive design / CSS / HTML5
* Experience creating templates, plugins, as well as implementing new features on existing systems
* I am very well-versed in native languages such as PHP, Node.JS, ASP.NET, SQL, Java, and Python.
* I am an expert at writing code for high-security backend integration systems.
* I keep up-to-date with all **of latest vulnerabilities for** many different systems.
* I am well-versed in the creation of frameworks or modular architectures to allow for rapid and agile development of any project.
* I am a walking encyclopedia when it comes to backend programming.
* I understand how to create sockets, make them work with RFC, and remotely perform any operation by using a socket connection.

## Personal character traits

* I am very friendly with people, and can work in a professional environment.
* I am well-organized and efficient.
* I am self-driven, but can also follow instructions well.
* I am careful, methodical, and take care to document the steps that I take.
* I can diagnose essentially any problem on any architecture very quickly.
* In addition to troubleshooting, I can quickly repair any problems with minimal cost.
* I am very people-friendly.
* I am quick to recognize social engineering attacks, and don’t compromise security
* I am able to explain difficult problems in a way that is understandable by employees or customers who are not as experienced as I am in a particular field.

### Education

B.S. Information Technology  
 MAJOR: Software Development and Analysis

American Intercontinental University (AIU), 2011-2015  
 GRADUATED with G.P.A. of 3.75 (A-/B+ Average)   
  
CERTIFICATIONS:

C.C.N.P. (Cisco Certified Network professional)

### Professional Experience

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| Datafault.net  Systems Admin / Programmer / DB Administration  2009-2019   * Detect and prevent vulnerabilities from being exploited * Maintain Database for many web sites and back-end applications * Develop, maintain, and implement code on cloud-based infrastructure * write code for backing up multiple virtual environments * provisioning new virtual environments using templating engines * updating configuration across multiple machines using puppet * replicating databases and imaging devices to different data centers when pushing from dev to production * writing BASH scripts to automate all of the above * Analysis of code / log files / configuration files to prevent errors * Creating APIs for internal use to access host-level features without exposing critical internal processes to public facing systems | |
| MultiEmployer.com  Backend PHP Programmer / Systems Admin  2019   * Migrate complex systems and databases to AWS * Re-write old code to support cloud infrastructure * Maintain dev environment to create new features * Add features to legacy code using large outdated data structures | |
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| The American Red Cross | |
| IT specialist | |
| 2016 | |
| Volunteer | |
| * imaging, * security configuration, * deployment of embedded systems to entire office building (50+ workers), * onedrive, * sharepoint, * network resources. |  |
| Linux Systems Administrator |  |
| 2015 - 2016 |  |
| Hourly |  |
| * monitor and proactively prevent production servers from being compromised. / security analysis * Troubleshooting / log file analysis * security configuration / pen testing * data analysis / database testing * performance optimization / code analysis * new feature implementation / writing code for feature implementation * automation implementation / bash scripting * writing puppet scripts * working with vsphere / virtual machine provisioning * working with vmware * identify areas of potential vulnerability/security risks and mitigate those risks. * Configuration of bind dns servers – setting up simple zones ipv4/ipv6 A records, * securing dns servers from configuration files * Load balancing tools such as SQUID to proxy data to and from servers to prevent bottlenecking caused by scripts which require heavy resource use * Migrate data and sites to different environments |  |

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| Geeks on site |
| Computer Repair Technician |
| 2014 - 2015 |
| HOURLY |
| * Repair Broken or Damaged computers, printers, tvs, fax machines, and many other electronic devices * Sell new parts to customers * troubleshoot malfunctioning machines at residence or place of business, then fix them * network computers, printers, other devices together * recommend changes or modifications to existing systems * Performing complicated repair tasks for all types of systems |

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| California Real Estate Finance |
| Web Developer/ systems admin |
| 2013-2014 |
| Contract-based project |
| * Managed/coded project for the creation of a web-based presence for the company * Implemented the required hardware to host the project * set up a CMS that allows them to dynamically update content without the need for a web developer in the future. * Actively provide the hosting services for their web presence from my personal Linux web hosts. |

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| MJS Web Solutions |
| Web Developer |
| 2012-2013 |
| HOURLY |
| * PHP Coding * Javascript Coding * SQL Programming * Maintenance * Designing solutions for complex problems * Integrate databases into existing projects * Build content management systems * Design/Implementation of custom features * Provide solutions to web-related bugs Solving requirements issues |

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| EON Technologies |
| Computer Repair Technician |
| 2006 – 2007 |
| HOURLY |
| * Repair Broken or Damaged Systems * Sell new parts to customers * Administrative Role with Linux Server which hosted about 500+ Domains * Analysis of problems/issues * Assisted in the development of a Distributed Linux Hard Drive Imaging Framework across Domains * Troubleshooting of systems * Performing complicated repair tasks for both software and hardware |

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| Netopia, Inc. |
| Quality Assurance Technician |
| 2003 – 2004 |
| 6 month Internship |
| * QA Testing of ONLINE E-STORE/CMS Software * Ran Test cases for various other services provided by the company such as Remote Desktop and Multi-platform portability * Entered Bugs using BugTracker * Requirements verification * Making reports to QA Team leader * Requirements testing * Stress testing * Crash testing * Path testing * Integration TESTING |

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| Valley Emergency Physicians |
| Webmaster/Database TECH |
| 2004 – 2005 |
| HOURLY |
| * Webmaster for [www.valleyemergency.com](http://www.valleyemergency.com/) * data entry when not working on website * Design/modification of advertisements |

References

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| --- |
| Jon pohlman |
| current employer |
| big dawg communications |
| jon@jonpohlman.com |

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| Michael Schwarz |
| Former employer |
| MJS web solutions |
| [michael@mjswebsolutions.com](mailto:michael@mjswebsolutions.com) |
| Scott Herman |
| Co-worker |
| Webeditor design services [www.webeditor.com](http://www.webeditor.com/) |
| spherman@webeditor.com |