
JOSHUA J. BERNITT

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Qualification Summary

I currently work for the Computer Science Corporation Government Services on a full time basis as a contractor to the Federal Deposit Insurance Corporation fulfilling the following roles and jobs:

- Senior application engineer, handling Unix system and middleware administration and assistant team lead.
- Interface with upper management and support team members in tasks.
- Drive tasks to completion, while being conscious of priority.
- Manage and install enterprise applications across development, quality and assurance, and production environments.
- Maintain those applications and troubleshoot them when they fail.
- Create scripts and small programs for application support and system support and administration.
- Primary support for Oracle WebLogic Server.
- Experienced SUN IDM application engineer, currently handling all IDM server side tasks.
- Work closely with the Access Management Team to install updates to the IDM software, and troubleshoot connection issues and errors.
- Handle security findings in the UNIX environment including Apache vulnerabilities and worked on plan of action to resolve vulnerabilities in a timely fashion.

I am a software engineer, currently work with a small team for a startup company as a full-stack LAMP developer in creating a complex business content management system that is responsible for handling business workflow, employee actions, management actions, customer interaction, payroll, and reporting. I have:

- Implemented numerous subsystems of this complex server-side/client-side application.
- Refactored code to make for a more concise and logical execution and easier readability.
- Planned and executed the coding of many of the subsystems
- Optimized and rationalized the application controllers so they could be reused in segments of the application.
- Recognized the need for, visualized, and created a solution for user workflow and task management.
- Understood complex requirements and coded the solutions for them in such a way as to make the user interface as simple as possible.
- Saw the need for code generalization in many data update functions and refactored them to use dependency injection rather than relying on static input.
- Excellent abilities in integration of multiple systems. Integrated several separate libraries into single application; understanding and utilizing different APIs as required.
- Excellent experience in PHP and Javascript.
- Full LAMP Stack developer with lots of experience with Apache

I have excellent experience in:

- Coding algorithms ranging from basic filter algorithms to forward-chaining artificial intelligence algorithms.
- Design patterns such as MVC, Chain-of-Command, Inversion-of-Control to standardized module architecture, dependency injection, Agile development and peer development techniques.
- Coding solutions for logic holes in already working code without refactoring large portions of the code.
- Understanding the needs of customers and how to best implement those requirements to minimize cost and time.
- Excellent problem solving skills; able to think outside the box when dealing with situations not yet encountered, both as part of a team and as an individual.

Since the startup has no dedicated server admins, I have utilized my experience from the FDIC to:

- Create development environments
- Expand LVM formatted disks
- Mount partitions
- Install development tools
- Handle dependencies for development tools

School projects include:

- Data structures in Java
- Buffer overflow practice in C
- Using the Gnu Debugger (gdb) to exploit running application
- Writing a Linux shell from scratch
- Create system call in Debian Linux and recompile the kernel
- Multithreaded system call utilizing locks and mutexes
- Compiler theory
- Wrote compiler for personal language that translated into NASM assembly language
- Artificial intelligence algorithm study
- Wrote genetic algorithm for game Master Mind.
- Map algorithm study
- Malware analysis course
- Software development course with deliverables, specializing in Agile development.

Technical Skills, Certification, and Training

<i>Development Methodologies:</i>	Agile, Waterfall, Spiral models, Peer programming
<i>Frameworks</i>	<i>AngularJS, Foundation Framework, Twitter Bootstrap, jQuery, jQueryUI, jQuery Mobile, ExpressJs, MeteorJS, Drupal (limited), Laravel (limited)</i>
<i>Tools, Upper Case:</i>	BIRT report creator, VMware VSphere, VMware Fusion, BigFix, Oracle WebLogic Server, Parallels Desktop
<i>Tools, Lower Case:</i>	Eclipse, Netbeans, Sublime Text, TextMate, Coda, Emacs, VI, JetBrains IDEA/PHPStorm, Xcode, CVS versioning tool, git, GDB, GitHub, Slack
<i>Languages:</i>	JavaScript, PHP, Various Unix/Linux shells, SQL, Python, CSS, Precompiled CSS languages
<i>DBMS:</i>	MySQL, Mongo
<i>Documents and Data Design</i>	<i>XML, JASON, DDL Operating Environments:</i> Linux(various), Solaris, Mac OS X, iOS, Windows 95-Windows 8.1

Employment Summary

Design Prowess – Innovations for Business (IN4B) 2012-Present

Development Manager and Partner

Providing long term coding and development support. Given charge of all parts of the current web application. Refactored large portions of integral code for easier understanding of the operations for future viewers. Developed key subsystems for both backend logic and front-end user experience. Assigned problems uncovered by the CTO and fixed those problems in a timely fashion. Discovered new problems and placed them into a bug tracking hierarchy for fixing based on their severity. Worked extensively in backend logic for the processing of data in the system. Worked with and helped design large, complex control routines for the processing of data and even developed complex control routines that performed integral functions. Given full control of refactoring said complex control routines. Determined a new and easier way for searching through the systems indexed files and implemented the search. Designed front-end pages for average and technical users. Simplified front-end experiences for users based on feedback. Understands both front-end and backend requirements of the system.

Easily switches between the two environments. Helped implement SSL for production server. Managed WAMP, LAMP, and MAMP personal servers. Extensive use and understanding of SQL, PHP, and Javascript, including the AngularJS framework. Extensive use of LAMP stack. Some work in Drupal framework and Laravel. Is able to easily visualize and understand customer requests and concerns and can transform customers' non-technical requests into logical working code that meets the customers' desires.

Computer Science Corporation - March 2014-Present

Senior Professional Application Engineer

Currently working for CSG and supporting the FDIC service operations contract. Performing daily Unix Operations work, management and Middleware support along side SharePoint administration. Creating automation scripts and updating programs are part of daily tasks, as well as Unix admin tasks and application troubleshooting. I also provide support for quarterly Unix patching by bringing down applications and ensuring they are brought back up after patching is done. I support all SUN IDM application work on the Unix servers. I am responsible for restarting the application after all patches, whether Unix server or application specific. As the assistant team lead, I interact with upper management and drive the tasks they hand down, keeping keenly aware of work priority and time management. I also support team members in achieving access to the proper systems and handling escalations of incidents on and off hours and working with team members to handle difficult tasks

Education

University of Maryland Baltimore County
Bachelor's in Computer Science with Mathematics Minor
Graduated ...

Internships

Intern

Financial Industry Regulatory Authority

Worked in IT infrastructure. Lead on implementing VMware cloud based OS provisioning system for developers.

Awards and Achievements

- i. Phi Theta Kappa