Jonathon Clark
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IT Director - Senior Systems Engineer

— Proven experience in providing comprehensive network and computer infrastructure solutions.

— Linux Systems specialist. – <u>Linux Foundation Certified Engineer since 2016</u>

— Mixed network (Linux, Windows, Mac, Android) Systems Administration.

— Disaster Recovery and HA Systems Backup and security policies.

— Experienced Python and Angular containerized application developer.

— Proficient with VMware, OpenStack, RHEV virtualization platforms.

— Articulate, friendly and personable.

Employment Information

Director of Information Technology

Mount Carmel School, Saipan Island CNMI - August 2015 – Present
Established an Information Technology Department on the largest private school on the island. Revolutionized the entire computer landscape on campus. Implemented policy to streamline digital information workflow and establish the 21st Century classroom imperative. Programmed several applications which were used in concert with the School Information System and the Accounting Department. Implemented Backup and Security policy for critical system data.

A brief detail on major accomplishments:

— Deployed VMware, and RHEV platforms, introduced new virtualization computing strategies which had the following effect:

  • Provided scalable computer pool resources for students and teachers.

  • Realized a substantial reduction in maintenance and electricity cost as well as slashing the per workstation cost by 68%.

  • Phased out and replaced obsolete hardware with more modern thin clients and mini-computers designed for use on a distributive processing capable network.

— MCS had specific needs which off the shelf software could not fulfill, or could not offer a reasonable or practical solution. I utilized my application development skills and successfully deployed into production, several custom on-line applications:

  • Employee Payroll Time Sheet – this application allows staff to time in and out online.

  • Five Year Strategic Plan Project Manager- this online application was a tool for all stakeholders to collaborate and manage the school's long term strategic plans. The application was simple and targeted, with almost no learning curve for users. After deploying this application, the projects began to gain momentum and productivity improved significantly.

  • MCSAP – Mount Carmel School Admissions Portal – A public facing registration portal. Parents directly registered students for each year. Allowing the parents to manage the demographic data which would later integrate with the school information system (SIS). Parents were instantly notified, through a real time dashboard, their students admission status. This increased data collection and accuracy and expedited the enrollment process. This also saved the school from spending several thousand dollars on a 3rd party solution.

— Conducted professional development training class modules, organized a tech team, and provided comprehensive technical training and support for all teachers and administrators in an effort to achieve a consistent technical proficiency level.

— Recognized and instituted cost cutting measures, which saw the successful migration to open source and in-house developed applications from more costly commercial alternatives whenever possible.

— Developed a culture of saving and efficiency for the IT Department reducing overall budget strain.

Systems Engineer and Administrator

Mango Resort Saipan February 2014 - Present - Saipan, Northern Mariana Islands

A newly renovated hotel with no systems in place.

– Engineered and supervised the construction of all electronic infrastructure for the resort including computer, satellite entertainment, WiFi, and office administration systems.
– Developed, programmed and deployed, the property management system (PMS) and a desk reservation system. Collaborated with the Resort General Manager to render her ideas into a production ready application.
– With a limited budget, I provided full O/A systems including VDI workstations and support networks.
– Harnessed virtual technology to provide cost effective growth solutions.
– Engineered WiFi zones and placements of AP's using commodity equipment to maintain 100% coverage for all rooms.

Systems Administrator

Seoul English Science Edu-Center August 2011 - February 2014 Seoul - South Korea

A South Korean science observatory and learning center.

– Streamlined the publication of a bi-weekly science periodical. I developed a network of administrative windows and Linux computers for data sharing and WebDAV collaboration.
– Maintained computer lab equipment to highest readiness.
– Built and demonstrated an Open Stack Havana for the team to use in the development of science based educational tools in the science research department.

Education

BS Computer Science - National University Sacramento, CA
Nuclear Power School - United States Navy
Electrical Engineering - Michigan Tech University – Houghton, MI

Certification

Linux Foundation Certified Engineer – LFCE

Technology Proficiency Summary:

VM Management:	RHEV Manager, OpenStack, VMWare
Containers:	Docker, LXD/LXC
Orchestration:	Docker Compose, Kubernetes, OpenShift,
Storage Systems:	Ceph, Swift, Cinder, Gluster
Scripting Language:	Python, BASH, Perl
Development Languages:	Python, AngularJS, JavaScript, C, C++, HTML, CSS, Jquery, PHP
Development Frameworks:	Django, Angular 5+
Admin Automation Tools:	Ansible, Puppet

Interests :

Astrophysics, Wood Crafting, Music Performance

Special Skill:

Speak fluent Korean