
JONATHAN AUTUS

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SYSTEM ADMINISTRATOR ▲ SYSTEM/INTEGRATION ENGINEER ▲ SOFTWARE DEVELOPER
Software/Hardware Engineer ▪ Management Information Systems

Full-Stack Web Developer with a background in Software Engineering, currently holding a bachelor's degree with 10+ years of experience based in San Diego, California. Current student at University of California San Diego obtaining a certificate in full stack development, graduating in September 2022. Experience in execution of the software development lifecycle, strong analysis skills, designing, developing, implementing testing .NET based business applications. Aptitude to lead, train and coach junior members to produce use cases and operational unit-testing procedures. Knowledgeable and proficient in requirement generation and analysis used to write, edit and test programs in accordance with DoD/DoN technology standards.

QUALIFICATION HIGHLIGHTS

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|-------------------------------|-----------------------|-----------------------------|
| • Tier 3/4 level Site Support | • Project Management | • Operations Management |
| • Technical Writer | • IT Infrastructure | • Multi-Platform Networking |
| • Systems Integration | • Migrations/Upgrades | • Customer Training |

TECHNICAL EXPERTISE

CERTIFICATIONS:	Security+; Windows Server Network Infrastructure/Configuration
OPERATING SYSTEMS:	Windows OS Platform Clients/Server, Linux (Solaris, Red Hat, Ubuntu)
HARDWARE:	Routers/Switches, SAN/NAS/DAS, Blade Server, Laptops, Workstations (HP, Dell and IBM), RiverBed (WAN Accelerator)
SOFTWARE:	Microsoft SQL Server, Microsoft Exchange, SCCM, Citrix Client & Server, Windows Terminal/Proxy Server, IIS, Symantec Backup Exec, McAfee (HBSS ePO and all modules), STIG/SCAP/ACAS, MS Office Suite, VMWare ESXi, WSUS, IAVA, SAN, VDI, Imaging Software (ie Ghost/Acronis/Veritas)
PROGRAMMING LANGUAGE:	VBS Scripting, PowerShell, C#, JavaScript, C++
CRYPTOGRAPHY:	EFS, SSL/TLS, Certificate Authentication, Single SignOn, VPN Client, IPSec, Bitlocker

PROFESSIONAL EXPERIENCE

CUTLER ENGINEERING | NIWC PACIFIC

SAN DIEGO, CA

Software | System | Integration Engineer

January 2018 to Current | Hours per pay period: 80

Distance Support NIAPS delivers maintenance, logistics, administrative, training, and management applications to users at sea. Designed to maximize the use of limited bandwidth by providing afloat units with access to applications while disconnected from the internet; ensures that data between ship and shore remains synchronized throughout the replication of data and applications hosted on NIAPS. NIAPS is a suite of applications and content, integrated together and hosted on a single shipboard server and categorized as a shipboard intranet web-based information system used to support, collect, distribute, and display information in a shipboard environment.

- Manage legacy system and deploy technical refresh update and provide service continuity, coordination and data exchange with designated external systems in changes with interface partners
- Perform deployment planning, installation verification, and testing to each technical solution for each system environment and perform all duties within DoN and DoD standards, regulations, and policy
- Provide software release package and supporting documentation to facilitate package installation and data migration
- Provide modularity and open systems architecture improvements that reduced life-cycle costs of the systems
- Support and implement changes to the application components in the software engineering, test, and production environments and provide support for all application issues associated with the operation of software applications and associated Commercial Off-The-Shelf (COTS) software (e.g. iOra and Axway software)
- Assist and/or lead to solve issues with applications and all configuration items; perform software changes and maintenance in both a web environment and client environment and produce supporting documentation
- Extensive knowledge on the following technologies to perform software changes: SQL Server, SharePoint, Visual Basic, .NET, HTML, Java, Oracle, SQL, Crystal Enterprise/Crystal Reports, and Remedy software applications
- Manage and maintain documentation of the baseline configuration, track all software version changes and provide input to Configuration Management repository (Serena Dimensions)
- Perform application testing and integration that included installation testing, regression testing, and load testing, providing test reports at the end of each event
- Provide testing services, environments for both internal/external use by hosted applications and coordinate and provide troubleshooting with application developers
- Conducted Systems Administrator and IT Systems Engineer duties for server hardware, software configuration, and network integration management on the NIWC PAC on RDT&E test network

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- Perform IA, software patch installation and management, daily administrative tasks of backup and restore of test systems and shipboard installation images
- Troubleshoot and resolve systems and network problems, manage and maintain shore-based NIAPS replication infrastructure and monitor system issues, verifying automated processes are running and server management consisting of test/deployment amendments to/from servers for testing, production publishers for operational systems tests for new releases and fixing corrupt pubs, management of production return data servers to ensure application of new outbound data, update maintenance and data transport verification
- Manage customer and ship FTP accounts/directory structure, Axway software, certificate updates and adding new automated processes as new applications join NIAPS
- Support test/release of content and programs by ensuring data is only replicated to specific Fleet units and interface with programmers of hosted applications to troubleshoot and resolve issues
- Support after hours on call services that may require immediate action for Fleet support or remote user locations
- Provide end-user support via remote collaboration tools and ship visits, analyze and review ship installations and track data, replication, application and IA issues

CUTLER ENGINEERING

SAN DIEGO, CA

System Engineer

May 2017 to January 2018 | Hours per pay period: 80

MGF Project Infrastructure Modernization, Maintenance, and Support provides engineering, installation, configuration, administration, and troubleshooting services to design, implement, secure, maintain, and ensure stable operation of classified and unclassified IT infrastructures, platforms, and laboratories. Performance of this work will occur internal and external to MGF enclaves and across MGF Projects.

- Perform hands-on IT infrastructure and platform technical design, engineering, and assistance in deploying and operating IT infrastructure and platforms; perform engineering analysis, functional analysis, and integration of new, updated, or upgraded IT infrastructure and platform components, systems, and networks
- Support the integration of systems and applications, subsystems, and hardware components into conceptual, preliminary, and baseline products for IT infrastructure and platforms
- Perform End-of-Life IT infrastructure and platform research and testing to ensure form, fit, and function replacements maintain baseline requirements; provide alternative solutions when baseline requirements cannot be maintained
- Perform drawing reviews for IT infrastructures and platforms to ensure all system requirements are met
- Provide GCCS-M infrastructure maintenance and support engineering and system administration services to maintain and ensure stable operation of classified and unclassified GCCS-M IT infrastructures and platforms
- Perform maintenance on IT infrastructures and platforms, and perform hands-on engineering, installation, configuration, administration, and troubleshooting of servers, SAN/NAS/DAS, backups, private clouds, network design and components, middleware, PKI, monitoring devices, hypervisors, workstations, zero/thin clients, and peripheral hardware, Apple OS X, Linux, Solaris, and Windows operating systems, Active Directory and LDAP services, Red Hat, VMware virtual and PaaS architectures, Backend storage systems to ensure optimal use and sufficient capacity, Networks, firewalls, network-based and host-based security activities to ensure network connectivity to unclassified, classified, operational, and standalone environments, End user accounts, permissions, and access rights
- Collaborate with the MGF Infrastructure Manager, Lab Managers, Information System Security
- Officers, Project Managers, and Team Leads to support best practices, growth, and optimization of laboratories, secure rooms, and IT infrastructure and platforms
- Collaborate with internal and external agencies, organizations, and vendors to analyze, identify, recommend, and implement COTS/GOTS, NDI products that facilitate IT infrastructure and platform design, installation, operations, and system administration to optimize performance
- Assist MGF Infrastructure Manager and Lab Managers with Certification and Accreditation and eMASS package creation and maintenance; perform information assurance and security, contingency planning and testing, disaster recovery planning and testing, capacity planning and testing, proactive maintenance, and problem analysis and remediation of IT infrastructure and platforms
- Perform security vulnerability analysis and remediation across IT infrastructures and platforms to ensure confidentiality, integrity, and availability in conjunction with DOD and Navy information assurance and security policies and guidance, SSC Pacific Security Manual, SSC Pacific Cybersecurity Manual, SSC Pacific CMS Training Handbook, MGF Security Manual, STIG, SCAP), Security Requirements Guides (SRG), and best security practices
- Perform network and security audits and baselining using ACAS and VRAM tools; perform system logging and backups for IT infrastructure and platforms.
- Assist in ensuring that IA and IA-enabled software, hardware, and firmware comply with appropriate security configuration guidelines
- Prepare test and evaluation plans and procedures for IT infrastructure and platform, and perform analysis for modifying systems, subsystems, and components that will be integrated into IT infrastructure and platform baseline systems

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- Perform re-creation of system issues identified in previous testing, as well as requirements review, use of statistical and scientific methods for technical requirements traceability, and verification and validation of defects
- Participate in providing Tier 2 and 3 support for system administration and operations of IT infrastructure and platforms, including duplicating issues, resolving and providing appropriate solutions, and minimizing the overall impact to confidentiality, integrity, and availability
- Support external events and provide remote support via email, phone, chat and on-site support CONUS and OCONUS
- Provides engineering and system administration services to design, implement, secure, and ensure stable operation of new classified and unclassified MTC2 IT infrastructures and platforms including PMW 150 MTC2 systems worldwide

SYZYGY | CUTLER ENGINEERING

SAN DIEGO, CA

Test Engineer

March 2014 to May 2017 | Hours per pay period: 80

Engineering personnel provide systems engineering, hardware and software integration, software development, web services, independent verification, validation, test, and evaluation services for contemporary C4ISR systems, such as the Global Command and Control Family of Systems and CENTRIXS-M, to Department of Defense agencies.

- Provide Test and Evaluation support of GCCS-M systems, and associated communications using operational sensor or scenario data, performing T&E engineering at operational C4I sites afloat and ashore that utilize GCCS-M
- Develop test plans and schedules for GCCS-M systems and conduct tests with the developed test plans, perform test, data collection and analysis, and generate test reports to include performance metrics, functional testing of new builds and regression testing for GCCS-M systems and components, software patch configuration and the following types of software and hardware testing: usability, performance, compatibility, interoperability, maintainability, and security
- Recreate issues for GCCS-M systems and components developing technical reports validating or invalidating issues reported via the ECP or STR
- Provide engineering support to configure, modify, and operate the GCCS-M test environment networks to include software installation, network configuration, system administration and provide engineering support to maintain test lab security accreditation including hardware and software inventory and control required to support IV&V test efforts
- Utilize performance and/or automated test tools to support test events of GCCS-M systems and components, developing new test scripts, modification of existing test scripts, and test execution
- Perform hardware/software assembly, setup, configuration, and network connectivity support for GCCS-M test environment, components, certification, accreditation, physical access, and information assurance support for lab test and events include providing T&E support to operational C4I sites afloat and ashore that utilize GCCS-M
- Perform IV&V on GCCS-M application segments requiring modification. The effort shall focus on integration, setup and configuration, system dependencies, and functional testing to include: usability, performance, scalability, equivalency, compatibility, interoperability, maintainability, and security; including requirements and implementation review, as well as test plan preparation, performing tests, and generating test reports; use statistical and scientific methods for technical requirements traceability, verification and validation of defects, development of software test plans and procedures, and review of system level documentation
- Perform documentation verification and validation of online system technical manuals, context sensitive help files and search facilities for accuracy against the system; provide recommendations on usability of the documentation
- Evaluation of Web service availability, Web service response times, security policies, and stress/load testing of Web services. Testing include the verification of Web service documentation accuracy by comparing documented Web service functions with actual test results using a Web service testing tool
- Perform software quality assurance to verify that delivered software builds conform to government requirements; code examination to compare actual software implementation against requirements of GCCS-M system, procedures are to include examination of release notes for required enhancements and automated comparison of delivered builds with previous builds to verify release notes; involve an examination of all source code to ensure that development contractor deliverables satisfy requirements of functional and physical configuration audits

LOCKHEED MARTIN CORPORATION

SAN DIEGO, CA

Field Engineer Sr.

June 2009 to February 2013 | Hours per pay period: 80

Designs and plans network communications systems. Plans, conducts, and coordinates software development activities. Designs, develops, documents, tests, and debugs software solutions for business/mission objectives.

- Conducts testing of network design, maintains technical expertise in all areas of network and computer hardware and software interconnection and interface
- Evaluate and report new communications technologies to enhance capabilities of the network to ensure software standards are met
- Knowledge of storage platforms and SAN environment (e.g. EMC, EqualLogic and SANBlaze), responsible for administration of multi-array environment and skills related to interconnectivity between equipment on the SAN

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- Experience in distance data replication and disaster recovery processes, and RAID implementation such as striping, concatenation and mirroring (e.g. DoubleTake and RiverBed)
- Installation and configuration in Windows clustering, boot from SAN, operation and function of supporting systems software, and the relationship between components to plan, direct, assemble, implement, and support complex data processing networks
- Provide expert technical advice, guidance, and recommendations to management and other technical specialists on critical IT issues; engineering solutions and apply new developments to complex unsolvable problems; and make decisions or recommendations that significantly influence important agency IT policies or programs
- Subject matter expert in computer hardware and software in business/mission applications, information processing techniques used and information gathered from system users to develop software. Lead, plan, coordinate, manage, and redesign Host Base Security System (HBSS) structure to meet DoD mandate compliance
- Ability to perform in-depth troubleshooting and analysis of application and network management problems; knowledge of DoD/MDA mandated IA configurations and be able to provide technical inputs for POA&M deliverables; maintains smooth operation of multi-user computer systems, including coordination with network administrators
- Maintaining system documentation, tuning system performance, installing system wide software and allocate mass storage space; interacts with users and evaluates vendor products. Make recommendations to purchase hardware and software, coordinates installation and provides backup recovery
- Develop and monitor policies and standards for allocation related to the use of computing resources

HEWLETT-PACKARD | ELECTRONIC DATA SYSTEMS

SAN DIEGO, CA

System Administrator Advance

December 2004 to May 2009 | Hours per pay period: 80

Provide full technical support for day-to-day remote operation assisting clients. Maintain current and highest level of technical skill in the field of expertise while supporting over 600,000+ end-users. Interacts with Network Operation Centers and Site Operation to restore services and identify to correct core problems.

- Provide Tier 3 & 4 level remote support for desktop, laptops, printers and other peripherals for break-fix, install, move/add/change, and preventative maintenance activities
- Conducts hardware, software, and network troubleshooting and problem resolution within the IT systems environment
- Researches, makes recommendations for solutions, repairs or rebuilds systems to appropriate specifications; troubleshoot over 100+ applications on the NMCI network
- Provides user orientation of new and upgraded hardware/software packages
- Maintains disaster recovery procedures and up to date functionality of systems & software
- Provide mentoring or guidance to less experienced team members and or clients
- Performs additional support activities including monitoring, back-ups, scripting, imaging, patch implementation, incident resolution, account maintenance, system upgrades, and data migrations
- Manage users in Active Directory Users and Computers, Citrix, ISF, Verizon and e-commerce internal and external accounts; utilized ARS Remedy ticketing system to respond to client request for technical support
- Provide support for installation and configuration of services such as network TCP/IP, firewalls, routing, network administration and proxy servers, DNS/DHCP, Windows 2000, NT and Directory Services
- Remote administration tools used include Novadigm, Tivoli, Active Directory Users and Computers, Exchange System Manager, and Microsoft Management Console for Workstation Administration

EDUCATION

UC SAN DIEGO EXTENDED STUDIES – San Diego, CA

FULL STACK WEB DEVELOPER – CODING

09/2022, A+ Academic Average

ITT TECHNICAL INSTITUTE – San Diego, CA

B.S. DEGREE IN INFORMATION SYSTEMS SECURITY

09/2005, 3.87 GPA

ITT TECHNICAL INSTITUTE – San Diego, CA

A.S. DEGREE IN COMPUTER NETWORKING SYSTEMS

06/2003, 3.57 GPA

AWARDS & HONORS

HEAVY HITTERS TEAM RECOGNITION AWARD FOR OUTSTANDING SERVICE, NMCI ALL STARS AWARD AREA EAST/WEST, 2006

OUTSTANDING PERFORMANCE AND EXCEPTIONAL SERVICE, LOCKHEED MARTIN SPOT AWARD, 2010