

GIANG VU (John Vu)
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OBJECTIVE:

To successfully build a life long career in IT, Software Development, and Devops.

WORK EXPERIENCE:

AT&T, Dallas, TX (Remote), Apr 2021 Apr 2024

Full Stack Developer (Python, Javascript, OpenID/OIDC, Ansible, Terraform)

Provide software development for NMT Network Management Tools group.

Provide Python/Flask development for network management web applications.

Provide Python/Flask development for web and REST applications.

Developed web applications and custom python modules for Apache web applications.

Provided systems management of Apache and Redhat server configurations and upgrades through use of proprietary internal AT&T software manager tool. Developed software components and packages for installation on production servers.

Worked with MySQL databases, data modeling, using Toad Datapoint and MySQL Workbench.

Provided database administration and worked with complex application SQL statements.

Developed extract, transform, load (ETL) pipelines through custom scripts written in Python.

Worked on Python web application projects related to OpenID/SSO, OATH2, JWT tokens. Provided code changes to integrate OpenID with Apache/Python web application.

Worked with GNU build tools such as automake, autoconf, libtool, libxml2, expat, Jansson, gcc-8.4.1, perl-5.32.1, php-8.0.11, python-3.9.7, openssl-1.1.1n.

Worked with Redhat 8.x and 9.x, building custom rpm packages, yum/dnf scripts to perform automated software package installations using the AT&T software manager tool.

Wrote custom Python plugins/modules and dynamic inventory configurations for Ansible.

Wrote extensive custom ETL data transforms for custom plugins for Ansible modules.

Worked with Ansible Collections such as ansible.builtin, community.network, cisco.ios, community.mysql, community.mongodb, community.aws, community.azure.

Deployed AWS EC2/S3/EBS services with Terraform in conjunction with Ansible deployment of Apache, Python, MySQL, MongoDB application servers and databases.

Deployed Azure virtual machines and services with Terraform in conjunction with Ansible deployment of Nginx, Python, MySQL, MongoDB application servers and databases.

Cisco Systems / San Jose, CA (hybrid), Nov 2018 Apr 2021

Full Stack Developer (Python, Javascript, Docker, Kubernetes/Openshift, Ansible, Terraform)

Provide software development for Cisco/GIS/EIR group.

Developed applications and custom python modules with Python Django and Flask frameworks.

Developed web applications with Python/Django web framework.

Developed REST/api with Python/Flask, SQLAlchemy, Marshmallow, Flasgger (swagger).

Provided source code refactoring for legacy perl scripts refactoring them to utilize new REST services vs legacy SQL services.

Worked with Docker containers (Gunicorn/Redhat/Alpine/MySQL/MongoDB/Redis) during development, building Docker images and deploying to Openshift/Kubernetes.

Provided Kubernetes/Openshift deployment yaml files for containers/pods, persistent storage volumes, service accounts, secrete/security vaults, and control of deployment orchestration.

Provided build scripts for generating deployment integration between Bitbucket, Cisco docker hub, Openshift/Kubernetes.

Wrote custom Python plugins/modules for Ansible.

Worked with Ansible Collections such as `ansible.builtin`, `community.network`, `cisco.ios`, `community.docker`, `kubernetes.core`, `community.mysql`, `community.mongodb`, `community.aws`.
Deployed AWS EC2/S3/EBS services with Terraform in conjunction with Ansible deployment of Apache, Nginx, Unicorn, MySQL, MongoDB, Redis application servers and databases.
Worked with Python standard library modules, Collections, Requests, Django web, Flask REST, MySQL `pymysql` module, MongoDB `pymongo/djongo`, Redis `redis-py`, and Cassandra
Worked on Python and Javascript project relating to OpenID, federated SSO, OATH2, JWT tokens.
Provided code changes to integrate OpenID with Cisco proprietary Apollo supply chain platform.
Worked with MySQL, MySQL Workbench, Oracle, Oracle SQL Developer, MongoDB, MongoDB Compass, Robo 3T, and Cassandra.
Provided extract, transform, load (ETL) pipelines using Talend for Postgress, Mysql, Oracle.

Apple / Sunnyvale, CA (hybrid), Aug 2016 Oct 2018

Full Stack Developer (Python, Javascript, MySQL/MongoDB, Ansible, Docker, Kubernetes)
Provide Python development and support for web and REST server applications.
Developed applications and custom python modules and REST/api with Python/Flask, SQLAlchemy, Marshmallow, Flasgger (swagger).
Worked with Python standard library, Collections, Requests, web worker Pyodide, Flask web/REST framework, Marshmallow, SQLAlchemy, Flassger (swagger), MySQL `pymysql` module, MongoDB `pymongo/djongo`.
Worked with Python threads, async, web worker pyodide modules in back end REST and front end web applications.
Worked with MySQL, MySQL Workbench, MongoDB, MongoDB Compass, and Robo 3T.
Worked with Docker containers (Debian/MySQL/MongoDB docker images). Staged development on docker and created yaml deployments for Kubernetes.
Provided development database administration and configuration for MySQL and MongoDB.
Worked with Docker containers during development, building Docker images, and deploying to kubernetes.
Created custom applications based on Linux, MySQL, MongoDB, Python/Flask/Unicorn/web/REST servers.
Deployed AWS EC2/S3/EBS services with Ansible as well as Nginx, Unicorn, MySQL, MongoDB, and Redis application servers and databases.
Wrote custom Python plugins/modules for Ansible.
Worked with Ansible Collections such as `ansible.builtin`, `community.network`, `cisco.ios`, `community.docker`, `kubernetes.core`, `community.mysql`, `community.mongodb`, `community.aws`.

Ericsson / San Jose, CA (hybrid), Jul 2014 July 2016

Full Stack Developer (Python, Javascript, Ansible, Docker, Kubernetes)
Provide software development for IT tools group.
Developed scripts for engineering automation tools, database scripts/modules, backup scripts, data migration.
Worked with Python/Django web/REST framework for creating web applications and REST/api servers.
Worked with Docker containers (Redhat/Debian/MySQL/Oracle/MongoDB docker images). Staged development on docker and created yaml deployments for Kubernetes.
Worked with Ansible to provide configuration management of Engineering Linux systems.
Worked with Ansible Collections such as `ansible.builtin`, `community.network`, `cisco.ios`, `community.docker`, `kubernetes.core`, `community.mysql`, `community.mongodb`, `community.general.redis_`, `community.aws`.
Wrote custom Python plugins/modules and inventory scripts for Ansible.
Deployed AWS EC2/S3/EBS services with Ansible as well as Apache, Python, Java/Tomcat, MySQL, Oracle, MongoDB application servers and databases.
Worked with Python threads, async, web worker pyodide modules in back end REST and front end web applications.
Wrote custom Python modules implementing wrapper functions for Spirent, IXIA, and N2X TCL/api library functions for remote procedure execution on Engineering development network/test/traffic generators.
Wrote custom modules in Python for Cisco and Ericsson equipment to provide ssh remote command execution on remote routers and switches.

Worked with Python standard library, Collections, Requests, web worker Pyodide, Django web/REST framework, Marshmallow, SQLAlchemy, MySQL pymysql module, MongoDB pymongo/djongo, and Redis redis-py.

Supported MySQL, MongoDB, Redis, Cassandra databases.

Worked with Oracle 11g/12g, MySQL 5.1, MongoDB 3.x, and Redis.

Designed database schemas and DBA tasks for Oracle, MySQL, MongoDB, and Redis using Oracle SQL Developer, MySQL Workbench, MongoDB Compass, Robo 3T.

CISCO Systems / San Jose, CA (onsite), June 2013 Jun 2014

Python Developer (Python/Flask, Javascript, Ansible, Docker)

Worked within development tools group in support of Oracle DBA groups within Cisco.

Worked with Python/Flask framework, Marshmallow, and SQLAlchemy for web/data applications.

Wrote custom Python plugins for modules and inventory scripts for Ansible.

Deployed AWS EC2/S3/EBS services with Ansible as well as Nginx, Python, Java/Apache/Tomcat, Redis, MySQL, Oracle, MongoDB application servers and databases.

Worked with Python standard library, Collections, gunicorn, pymysql, oracle_cx module, and pymongo/djongo.

Worked with Oracle 11g/12g, Oracle SQL Developer, MySQL 5.1, and MySQL Workbench.

Designed database and schemas for MySQL and Oracle databases using Oracle SQL Developer and MySQL Workbench.

Provided extract, transform, load (ETL) pipelines using Talend for MS SQLServer, Postgress, Mysql, and Oracle.

SUN Microsystems / Oracle / Santa Clara, CA (Remote), June 2006 June 2013

Developer / Program Analyst Lead (Python, Perl/PHP, Javascript, Java, Chef)

Worked within development team responsible for of internal SUN software and tools used by the Solaris desktop for SWAN (SUN Wide Area Network) community of over 40,000 users.

Worked with Gnome Desktop, Solaris 9, 10, 11, OpenSolaris, Jumpstart, SUNRAY servers.

Maintained lab infrastructure of development servers and provided systems administration for group development labs.

Develop and deployed GNOME desktop applications used by all SWAN users such as Java desktop icons, LAMP stack web applications in PHP/Javascript/MySQL, automation in Perl, and GNU/SUN command line tools.

Responsible for acquiring latest release of Firefox and Thunderbird from Mozilla including extensions such as Lightning Calender, Realplayer, Adobe Flash then producing a Solaris sparc/intel binary tar package for Mozilla and SUN/SWAN Gnome desktop.

Worked with Oracle 11g/12g and MySQL on Solaris 9/10/11. Wrote custom scripts in Perl and Python to interface with Oracle and MySQL databases.

Worked with Oracle SQL Developer and MySQL Workbench to designed databases and schemas for web applications.

Provided extract, transform, load (ETL) pipelines using Talend for Mysql and Oracle.

Worked with Perl/Chef scripts to perform configuration management on development and production servers.

Develop test plans for verification of development projects.

Worked on development projects using Java, Perl/PHP, and later Python writing apps, libraries, and modules used by SWAN applications.

(Former Sr.UNIX SysAdmin: See below for all UNIX job descriptions)

TIBCO SOFTWARE / Mountain View, CA, Jun 2005 Jun 2006

ENG Lead Sr.UNIX Administrator (Perl, PHP, Javascript)

CADENCE DESIGN SYSTEMS / San Jose, CA, Apr 2004 Jun 2005

IT/ENG Sr. UNIX Systems Administrator (Perl, PHP, Javascript)

Planned and executed company merger projects between Verisity and Cadence Design Systems.

Accomplished successful company merger and integration in one year.

VERISITY / Sunnyvale, CA, Aug 2003 Apr 2004 (acquired by CADENCE)
IT/ENG Lead Sr.UNIX Administrator (Perl, PHP, Javascript)
Planned and executed company merger between Verity and Axis Systems.
Accomplished successful company merger and integration in one year.

NETWORK APPLIANCE / Sunnyvale, CA, Dec 1998 to Jun 2003
ENG Sr.UNIX Administrator (Perl, PHP, Javascript)
Worked with the latest Netapp filers in clustered configuration with fiber channel (SAN) direct connections.
Worked with prototype/beta hardware and chassis cards in dev/test configurations.
Worked with EMC storage servers and SAN fabric configurations.
Attended all of the Netapp training courses and was Netapp certified for all courses.

NETSCAPE COMMUNICATIONS / Sunnyvale, CA Jan 1995 to Nov 1998
IT/UNIX Administrator (Perl, Javascript)

RATIONAL SOFTWARE CORPORATION / Cupertino, CA, Mar 1991 to Jan 1995
IT/ENG UNIX Administrator/Technical Services (Perl, Javascript)

UNIX job descriptions:

Worked within a large multi platform UNIX development environments consisting of SunOS4, Solaris, Auspex, HPUX, IRIX, AIX, DEC/OSF, Linux/RedHat/Suse, and NT systems.
Provided Eng/UNIX support for development groups, build team, QA teams, remote SE, and also responsible for IT/UNIX core services.
Managed core UNIX services such as DNS, NIS, Sendmail, Postfix, Auspex NFS servers, Samba, web servers, Oracle servers, Informix servers, Sybase Servers, MySQL/Postfix servers, Checkpoint firewalls, Cisco routers/switches, ISC/DHCP servers, license servers, LSF farms, SUN Grid, Sun clusters, HPUX clusters, NAS/SAN storage servers.
Responsible for corporate email services and Sendmail/Postfix smtp mail routing. Managed all external Sendmail/Postfix, Exchange, email aliases/lists/scripts, spam/blacklist, and troubleshooting mail issues.
Supported Apache, Netscape Enterprise Server, Microsoft IIS web servers.
Implemented successful multi site backup strategy including implementing ISO9000 disaster recovery compliancy requirements.
Provided expert support for PDC BudTool, Legato Networker, and Veritas Netbackup including custom modifications and enhancements to the default backup scripts for each vendor.
Worked with large 16 drive, 256 tape, DLT/AIT robot tape libraries and bar code scanners.
Wrote shell scripts to perform administration and maintenance to the backup systems/databases.
Provided UNIX notebook support for TadPole/RDI Sparc/Solaris notebooks for SE sales engineers and other remote office users.
Also provided role of webmaster for IT and Engineering websites. Created web pages and wrote CGI scripts in Perl/PHP/Javascript.
Created configuration management scripts in perl to automate essential UNIX tasks such as updating configurations, installing/updating packages, patching systems, security scanning across heterogeneous UNIX network.
Created custom automation platform in Perl/Expect to telnet/rsh/ssh to UNIX systems and Cisco network equipment to perform automation and configuration management tasks.
Involved in multiple company mergers and company moves involving integrating all core UNIX services and hardware assets. Planning and relocation to new company of all UNIX hardware assets. Regenerating and bringing up UNIX and IT/Network infrastructure including Cisco routers and switches and internet service.
Wrote scripts in systems scripts in Perl, web pages in PHP/Javascript.
Maintained essential GNU UNIX tools, software/build dependencies and worked with Makefiles, Perl Makefile.pl module, common UNIX build tools, and GNU GCC compiler.
Performed database administration for engineering systems including Oracle 7.x/8i/9, Sybase, MS SQLServer, MySQL, and Postfix on Solaris, HPUX, AIX, and Linux.
Installed and configured SUN Clusters, HPUX McService Guard clusters, Oracle RAC/Parallel/Warehouse, Linux HA clusters, SUN Enterprise/HPUX RAID storage systems, Netapp/clustered/FC NAS, EMC SAN.

Created custom automation tools (similar in function to Ansible) in Perl and extended MRTG to provide metrics on reliability, services, network load, system load, and disk space for UNIX network.

Provided web graphs showing daily, weekly, monthly, yearly performance and reliability metrics for UNIX/NT servers, Cisco routers/switches, and corporate backup performance.

Lead projects on DMZ, firewall, security audits, internet/BGP/VPN, and internal network architecture changes.

Responsible for planning and execution of data migration projects for (Netapp, EMC, IBM) NAS/SAN storage servers. Provided expertise in NAS/SAN storage server configuration and policies.

Deployed VMWARE/ESX servers to data center. Planning, installation, configuration of ESX servers for Linux and Windows hosts.

Professional Skills:

UNIX, FreeBSD, Linux (Oracle Enterprise Linux, Alpine, RedHat/Fedora, Susie, Debian/Ubuntu, Arch), Docker, Kubernetes/OpenShift, AWS Cloud, Azure Cloud, Ansible, Terraform, Cisco ios, Network Appliance, UNIX shells, GitHub, GitLab, Bitbucket, Atlassian.

Apache, Nginx, Unicorn, Oracle, MySQL, MariaDB, Postgress, LDAP, MongoDB, Redis, Cassandra.

C/C++, Perl, PHP, Javascript, Python (Django/Flask/REST), NodeJS/EspressJS, ReactJS, HTML5, and CSS.

Core Java, Collections, Java application servers (JBoss, Apache/Tomcat, WebLogic, WebSphere), J2EE deployment.

Hobbies:

Exercise, running, working out when I can, electronics, embedded Linux and programming, open source hardware and software, learning new programming languages.

REFERENCES: Are available upon request.