

Senior DevOps/Golang Developer Senior DevOps/Golang Developer McLean, VA To blaze a career in Application Software Development and Management that will enable me to effectively use my qualifications in project management, programming and team building to develop optimum synergies for the organization. Authorized to work in the US for any employer Work Experience Senior DevOps/Golang Developer Boston, MA January 2017 to Present Designed and supported the technological infrastructure for the tech stack using AWS. ? Built patched AMIs for Jenkins Slaves using packer and updated the references in Jenkins. ? Supported the application team with account creation, SSH troubleshooting and AWS access. ? Modified the NGINX config to log the real IP-addresses of users accessing the web server. ? Used AWS OpsWorks for setting up SSH jump hosts(bastion) to increase system security. ? Wrote Cloud Formation templates to set up the entire stack (EC2 Instances, Auto Scaling groups, RDS, Route53, Security Groups, Network ACL, Subnets) for the application. ? Designed and Implemented an asynchronous Python lambda snapshot process using SQS. ? Architected the entire infrastructure using AWS VPC, Subnets, Security Groups & ACLS. ? Wrote Puppet 3 configuration management modules using Roles, Facter and Hierarchia to provision. ? Designed a proof of concept to write a back-pressure web handler in GO based on percentiles. ? Dockerized MongoDB 3.2 and setup a replica set with persisted data in a Docker network. ? Programmed the invoicing web application using Golang and PostgreSQL as the backend. ? Utilized Go Channels and Routines to enhance the performance of the invoicing application. ? Contributed source code in Golang to developing an automation framework for AWS CFN. ? Setup Rancher management platform with Kubernetes as the orchestration framework for running Docker containers in all environments. ? Implemented the automation framework around AWS Cloudformation using Go 1.8. ? Relied on my expertise in Java programming to troubleshoot the application and find errors. ? Made suggestions to upgrade the AWS EC2 instance type to a more compute intensive family. ? Setup log exports to Papertrail and Sumo logic for the Rancher host nodes using stdio output ? Used AWS CodeDeploy and Salt Stack to provision the EC2 instances install the application. ? Utilized Sumo Logic to collect logs and troubleshoot production related application issues. ? Setup Cloudwatch log forwarder to Sumo Logic endpoint using a

Python Lambda function. ? Employed Logic Monitor for performance monitoring of the production environment. ? Wrote Bash shell scripts to automate routine patching and process CLI outputs from the API. ? Used Git for storing automation code and followed the Git work flow for committing changes. ? Setup group S3 bucket permissions using IAM groups and policies based on names of teams. ? Contributed to a Puppet implementation of the CIS Docker hardening guide covering all parts. Senior Python/DevOps Engineer SOLTRA - Arlington, VA December 2016 to January 2017

Worked on the CTX/Edge 2.10 Cyber Threat exchange platform acquired by NC4/Soltra. ? Improved the back-end data model using Django 1.9 models with Mongoengine ORM. ? Comfortable on the Linux (Ubuntu & CentOS) command line and always learning Linux. ? Thorough knowledge of SSH, Agents and Proxy Commands to access systems behind FW. ? Wrote Ansible roles and play books to deploy code on to Soltra/CTX hosted solutions. ? Setup Kubernetes cluster (Master & Minion) on AWS(Ubuntu) using CFN and Ansible. ? Crafted Cloud Formation templates to automate the test, staging and UAT environments. ? Created an asynchronous snapshot and move to west region process using Lambda and SQS. ? Worked on the STIX to Snort rule conversion and the REST API Plugin with Soltra Edge. ? Setup Jenkins build processes for deploying the code base on Test and Staging systems. ? Supported users on the test and staging boxes by providing ssh access and troubleshooting. ? Wrote packer scripts to create CentOS 6.8 and 7.1 AMI'S used as release ova appliance. ? Was involved in setting up replica sets for high availability using MongoDB 3.2 in the West. ? Implemented Fabric jobs to deploy release artifacts on to the staging and test environments. ? Proficient with Shell Scripting and Python Object Oriented Programming/Scripting. ? Used JIRA for Sprint Planning and Confluence for documenting processes and findings. Senior Python/DevOps Engineer SOLTRA - Tampa, FL October 2016 to November 2016 P.S.: This project was shut down since an acquisition did not go through. ? Worked on the Edge 2.9/3.0 Cyber Threat exchange platform being developed by Soltra. ? Designed the backend data model using Django 1.9 models with Mongoengine ORM. ? Wrote asynchronous task processing pipelines using MongoDB for queuing and Celery. ? Gained domain knowledge on TAXII, STIX and CybOX (technical specifications for Cyber Security information sharing). ? Setup

VMware Fusion and converted the the production VM for development purposes. ? Implemented a Rest API using Django Rest Framework 3.3 and DJoser for authentication. ? Wrote React components to develop the front end with WebPack as the bundler and Redux. ? On joining the team studied the devops process for development boxes and streamlined it. ? Wrote Ansible scripts for setting up Nginx, UWsgi app server and the Mongo database. ? Designed and implemented Mongoddb Map Reduce jobs to aggregate statistics for threat data. ? Developed the system using Ubuntu 15.4 and deployed the code on CentOS version 7.0. ? Configured Circus to control the websocket server and asynchronous celery processes. ? Used Mongoddb to implement the data model for storing STIX/Cybox threat and Config data. ? Met up with government and non-governmental customers to discuss product features. ? Followed the Github Flow process to develop code with the team and manage reviews. ? Wrote Python generators for achieving better performance in the search system. ? Set up separate Docker container for Mongoddb, Uwsgi App server and the Nginx Server. ? Comfortable on the Linux command line and with Git subcommand usage.

Cloud Application Architect/Tech Lead/DevOps American Technology Consulting - Clive, IA  
October 2014 to September 2016  
Serviced Clients such as Capital One, WhichWinery Inc. and DTCC/Soltra Solutions. ? Provided technical design guidance on application development and system integration. ? Used Django 1.8/ Python 3.0 to develop an internal fraud monitoring dashboard and a CMS. ? Only worked on RedHat for deployment and Ubuntu Linux 15.04 for local box development. ? Comfortable on the Linux command line and with system administration tasks. ? Acted as a subject matter expert on a Request for proposal (RFP) whether to go with an in-house versus shared Connex switch for better throughput and fraud integration. ? Chaired weekly team grooming meetings to focus on sprint targets and achievements. ? Debugged Django views using Python debugger Pdb. Used Postman to test single functions. ? Setup AWS Cloud Watch Monitoring for Lambda jobs to create snapshots in the East region and copy them over to the West region. ? Connected the Django application to AWS ElastiCache for better system performance. ? Developed a Rest API using Django Rest framework exposing the application functionality. ? Improved the response time by implementing asynchronous tasks using Celery & RabbitMQ. ?

Migrated the application and infrastructure to US West region in AWS for disaster recovery. ? Setup Redis server for session management and replaced the slower default Django database. ? Improved the system performance by caching frequently requested data using Memcached. ? Created Amazon S3 buckets for storing media and provided the proper ACL settings. ? Set up an Elastic load balancer to route traffic to various EC2 instances as per the availability. ? Architected the analytics system to be scalable and highly available using AWS and S3. ? Mentored and setup training classes for new hires and junior staff to bring them up to speed. ? Installed Zabbix server on RedHat 7 and agents on the virtual machines to be monitored. ? Configured a hot standby PostgreSQL slave server in a different region to increase reliability. ? Used Cassandra 1.2 database for storing log data and Elasticsearch, Kibana for visualization. ? Implemented Python code to run Spark jobs on fraud data in Cassandra using PySpark. ? Conducted frequent grooming sessions with the business team to elicit requirements. ? Wrote data migration scripts utilizing SQLAlchemy to convert the data into the new structure. ? Implemented Django CMS templates to create an internal content management system. ? Configured Supervisor to control and monitor the Nginx server and the UWSGI App server. ? Implemented ETL automation tasks that load plain CSV and XML file data into the database. ? Wrote Chef scripts for provisioning systems and deploying builds on three pipelines. ? Setup continuous delivery using Jenkins and three pipelines one for dev, staging and prod. ? Comfortable with the AWS CLI to perform all tasks and write automation scripts using it. ? Wrote Bash shell (SFTP) scripts to handle system administration and regular file transfers. ? Lead all Aspects of Development from coding, designing and testing in an Agile System. ? Wrote Python unit tests to test the functionality and generated test reports using Nose. ? Tuned Redhat 7 by first measuring results from iostat, vmstat and top using sysctl interface. ? Configured NGINX 1.2 webserver and tweaked it for high performance utilizing caching. ? Used Metl, Pygrametl for Extraction, transformation and loading data from legacy systems. ? Implemented Python 3.0 scripts for data mangling (ETL) daily monetary transaction files. ? Understood and used Django migrations to propagate model changes to the database schema. ? Used Git for version control utilizing the internal github repository and git flow for reviews. ? Setup

local box using Docker containers for the web and application server and the db server. Senior Systems/Software Engineer V Hewlett-Packard - Fort Collins, CO April 2013 to October 2014

Worked on the "HP Helion Enterprise Cloud Platform" startup cloud initiative. ? Developed a highly resilient and scalable multi-tenant monitoring systems for the cloud. ? Setup Bamboo 5.1 Continuous integration server for building, testing and deploying code. ? Learned how to interrupt the Linux boot process via the GRUB loader and acquire root shell. ? Setup a cloud with OpenStack neutron which included the network and the subnets within it. ? Utilized Python 3.0 for writing cloud monitoring service Monasca-Agent for HELION project. ? Implemented a proof of concept while migrating from Vertica DB to Cassandra for metrics. ? Tuned the Linux kernel to meet optimized application performance using `sycsctl` and `top`. ? All development was done using Ubuntu Linux 15.04, Eclipse (Java) and Sublime (Python). ? Wrote Ansible configuration scripts to automate and provision Linux systems in HP Cloud. ? Customized OpenStack Horizon templates using HTML5, CSS and Javascript. ? Wrote Multithreaded Python code for performance testing the Monasca Rest Api. ? Researched and provided a detail comparison list between Cassandra and other NoSql DB's. ? Used Vagrant to setup the development stack machine and the monitoring machine. ? Converted existing Monasca Java persistence module into Python 3.0 code. ? Used CQLEngine ORM to insert and retrieve monitoring data into Cassandra cluster. ? Developed Monasca UI using Horizon dashboard (Django) to display metrics and events. ? Used Kafka to publish metrics from the Monitoring API and the Threshold Engine. ? Setup services to run under different run levels in Redhat and CentOS using `update-rc.d`. ? Used Keystone for authentication (authN) and high level authorization (authZ). ? Wrote cloud monitoring components for collecting system metrics using Nagios Plugins. ? Familiar with Oracle VirtualBox to create Kernel based Virtual machines for testing. ? Developed high-speed metrics processing and querying using REST API and Python. ? Wrote system administration tasks using Python and Fabric to get system metrics. ? Utilized MySQL 5.0 for storing config data and HP Vertica for Metrics and Alarms data. ? Implemented the Monasca notification engine using Python 3.0 with OOPS concepts. ? Used Apache Tornado web server as the forwarder to collect the metrics from the collector. ? Metrics

were stored into Influxdb and then displayed using Grafana on the front end. Senior Service Information Developer IV Hewlett-Packard - Mount Laurel, NJ August 2011 to April 2013

Architected, designed and developed multi-tier systems using Java/J2EE and Rest Services. ? Collaborated with Business Analysts and Stakeholders to refine business requirements. ? Used Python 3.0 to parse through legacy flat files and load data into Oracle 11g (SqlAlchemy). ? Provided Technical support for OS software to other teams within the HealthCare division. ? Implemented Python 3.0 Regular Expressions to parse through huge meta-data repository. ? Demonstrated use of mETL with Python and DB2 to extract, transform and load legacy data. ? Utilized Spring MVC for implementing MVC pattern in the Social welfare application. ? Persisted data using Hibernate, DAO Pattern and Spring AOP Transaction Management. ? Used Hadoop, MongoDB and Python 3.0 to implement Person match in Legacy Conversion. ? Implemented Role based security in the welfare application using Spring Security. ? Led the team as Tech Lead overseeing a team of 11 developers and assigning related work. ? Implemented Batch Generation of EBT checks using J2EE-Java, JMS and EJB 3.0- MDB. ? Wrote Jython automation scripts for J2EE application deployment and WAS administration. ? Engaged in the analysis, design, development and testing phases of the software solution. ? Delegated tasks to junior programmers to successfully adhere to deadline. ? Utilized IBM Rational Software Architect to design the Entity model and Class model. ? Applied technical knowledge to provide maintenance solutions to production system. ? Automated testing end to end business functionality using Watir/Selenium (GUI) scripts. ? Worked with cross functional teams and set priorities reflecting business interests. ? Spearheaded Notice generation framework using Oracle AQ, HP Exstream and C++/OCCI. ? Utilized Java 1.6 (POJO) to write Business Process Objects and Service Layer code. ? Designed SQL Procedure automation using Java 1.6 and Hibernate as the ORM. ? Used C language to process large files in UNIX and convert legacy system data. ? Utilized Perl 5 to obtain delta between OOTB configuration files and customized files. ? Used Jython 2.2.1 to read Java class file attributes to generate front end code. ? Very comfortable on the Unix/Linux and FreeBSD command line interface. ? Wrote Python scripts to read data from Excel files and generate XML configuration

files. ? Utilized H2(Dev), Oracle 11g (Test) and IBM DB2 databases for development and testing. ? Setup Jenkins continuous integration for Development and Release purposes. ? Led regular code reviews and timely completion of end to end Business Flows. Programmer Analyst II University of Pennsylvania - Philadelphia, PA October 2008 to August 2011 Programmed in C++/STL for implementing language recognition modules for NLP research. ? Maintained the external relations website using JSP, Servlets, Spring MVC, Hibernate. ? Aggressively learned shell commands and implemented piping and redirection on Free-BSD. ? Supported System administration tasks and acted as a backup for the System Admin team. ? Used C++ and Boost.GIL for video image processing for extracting snapshots of a video. ? Used Perl one liners to search and replace text in files, to calculate totals for number columns. ? Gathered business requirements and translated them into technical specifications. ? Administered Jboss 5.0 and created queues for messaging between client and MDB's. ? Formulated Statistical Classification algorithm for Gigaword and implemented it in Perl. ? The algorithm was designed to primarily work with unstructured text and game scores. ? Created and Tested the language identifier program on different data sets. Plotted the data points to show the accuracy of the code with relevance to bigram/ngram language detection. ? The Statistical Algorithm used certain text information to discriminatively determine the type. ? Wrote Perl scripts to process text files that were used for Gigaword Publications by LDC. ? Implemented PDF invoice generation using Java 1.6, JSP, JBoss messaging and Spring MVC. ? Used Python 3.0 for generating word frequency lists over different language corpora. ? Primarily worked on UNIX- (FreeBSD & Linux Ubuntu) based systems. ? Utilized Java 1.5 to write design and implement a parts of speech tagger using NLP. ? Used NLTK to write Python NLP (Natural language processing) programs for text corpora. ? Designed and developed internal Linguistic Corpora portal using Django and MySQL 5.5 ? Used R classification tools and methodologies (SVM) for training and validating the model. ? Implemented a word break correction program using Python 2.7 for Korean language. ? Designed the entity relationship model and utilized MySQL as the RDBMS. ? Processed huge text files (40MB) for Linguistic Publications using Perl Regex Processing. ? Tested language identification models using C++ and Python 3.0, NumPy and

Pandas. ? Wrote Bigram language identification discriminative models in the realm of machine learning. Software Engineer I Siemens Medical Solutions - Malvern, PA January 2007 to September 2008 Developed Multi-tier Enterprise Clinical solutions using Java 1.5 and J2EE 1.4. ? Adopted ANT and XML for automating software build processes of all product modules. ? Unit tested code using Junit and Junitee framework. ? Understood and applied the Software Development Life Cycle on daily basis. ? Used IBM Websphere as the runtime environment and Eclipse 3.2 as the front-end GUI. ? Applied Object-oriented design concepts to solve business problems. ? Used TIBCO Business Works for event processing and HL7 to XML transformation. ? Used Microsoft SQL Server as the Relational Database Management System. ? Oversaw System Integration (AIT) of Soarian Clinicals JDI Module. Intern/Co-op, Tools and Methodologies Siemens Medical Solutions - Malvern, PA August 2006 to January 2007 Used Rational ClearCase (Configuration management system and version control). ? Used Rational ClearQuest (Defect tracking tool) Information Systems Intern Saint Joseph's University - Philadelphia, PA February 2005 to August 2006 Developed and maintained the university website using JSP and Servlets. ? Supervised the Data Processing Lab and Administered the Windows 2000 Server. ? Used Weblogic 8.1 as the Application Server for the graduate admissions website. ? Managed Talisma, (A complete ECRM package) and troubleshoot issues. ? Wrote Bash/Korn shell scripts and used UNIX/Solaris as the Operating system. ? Automated daily backups using MS-DOS batch file scripts. ? Used C++ for programming tasks assigned. Geographic Information System (GIS) Intern National Institute of Oceanography, Panjim, G a June 2002 to August 2004 Implemented a Geographic Information System using ArcGIS and ArcSDE Family. ? Developed a web application for querying ocean and marine data using HTML and PHP. ? Worked with the ERDAS Imagine and MapInfo family of Products. ? Analyzed data and designed an ER-model, scanned and digitized maps. ? Implemented the data model using Oracle 8i relational database management system. ? Utilized both Redhat Linux and Windows for developing and testing the web app. ? Wrote Perl Scripts to load data from flat files to Mysql(Testing) and Oracle(Prod). ? Filtered specific data using pipeline processing with SED and AWK. ? Used Jakarta Tomcat to Test the website before deployment. ? Wrote Bash shell scripts to



automate the deployment of Web application.      SOCIAL WELFARE PROGRAMS: Worked with Medicaid, General Assistance, Temporary Assistance for Needy Families and Food Assistance programs at the New Jersey CASS project within HP.      IDEAS: OO design, OO programming, Extreme programming (Agile), Test-first design, Relational databases, Byte code engineering (Java Assist Tool), Code reviews, Code Optimization, Data structures and Algorithms. Able to quickly become productive in languages and frameworks which I have never used before. Education M.S.E. in Executive Masters in Technology Management in EMTM University of Pennsylvania, Wharton Business School - Philadelphia, PA June 2013 M.S. in Computer Science in Computer Science Saint Joseph's University - Philadelphia, PA December 2006 B.E. in Computer Science and Engineering in Computer Science and Engineering Padre Concei o College of Engineering July 2003 Skills Bash (6 years), Java (10+ years), Perl (6 years), Python (9 years), testing (7 years) Additional Information SOFTWARE SKILLS: ? Operating Systems: UNIX, FreeBSD, Ubuntu, CentOS, WIN 7, IBM AIX. MAC OS X ? RDBMS: Oracle11g, IBM DB2, MS-SQL server 2005, MySQL 5.0, H2 ? Languages: Java 1.6, Python 3.0, C/C++- STL & Boost Libraries ? Scripting: (Korn & Bash), AWK, Sed, Perl 5.10, Ruby 2.0.0 ? Distributed Computing: J2EE 1.4, EJB 3.0, Java EE 6 ? Web Technologies: XML, XSLT, PHP, ASP, JSP, Servlets, JavaScript, HTML5 ? App /Web Servers: Tomcat 4.2, IIS, IBM Websphere 7.0, JBOSS 5.0, WebLogic 8.1 ? Geographical Info Systems: Imagine, Erdas, ArcGIS Family ? Web Frameworks: Struts, Hibernate 4.0.1, Spring 3.2.1, jQuery 1.4.1 ? Development Tools: Neatbeans 7, Eclipse 3.7, IBM RSA(UML), IntelliJ ? Release Tools: AnthillPro 3, CruiseControl 2.5, Hudson, Maven, Jenkins ? Testing Framework: JUnit 4.4, JunitEE 1.10, Selenium and Watir. ? Versioning Tools: Clearcase, Subversion 1.7.9, PVCS, GIT ? Messaging Frameworks: Oracle AQ, MDB (Message Drive beans), TIBCO EMS/RV. ? Document Automation: HP Exstream(PDF Generation Engine) ? Web-Services: Soap, Rest WebServices ? Monitoring Tools: Zabbix, Monasca API ? No-SQL: MongoDB 3.2 and Cassandra ? ETL Tools: Metl, Petl, Pygrametl

Name: Kimberly Stewart

Email: [xwright@example.net](mailto:xwright@example.net)

Phone: (688)528-2491