

Nick Sangchompuphen

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EXPERIENCE

CGI Federal, Lafayette, LA — Senior Consultant

December 2016 - Present

Technical Lead, DevOps and Tools Engineer, Test Automation Engineer, Maintenance Developer, Web Developer

Venture Ave Inc., Lafayette, LA –Software Developer

September 2022 - February 2025

Software Developer

IBM, Baton Rouge, LA — Application Development Specialist

July 2013 - November 2016

Software Developer, Tier 2 Technical Support

EDUCATION

University of Louisiana at Lafayette, Lafayette, Louisiana — Bachelor of Science, Computer Science - May 2013

ROLES AND PROJECTS AT CGI FEDERAL

DevOps and Tools Engineer for Government Accounting Software and AWS Push Notification Software

- Enabled developers to dictate clusters used to run build pipelines on by developing and implementing a pipeline schema and writing selection logic in a Python program and GitHub trigger.
- Maintained security standards by deploying custom tekton build pipeline infrastructure to 4.2.0 Openshift clusters.
- Added end of life dependency scanning using XEOL to Golang based installation utility for Momentum accounting software.
- Developed build failure notifications in tekton pipelines to allow developers to receive emails for build failures with log attachments

SKILLS

Angular, Ansible, AWS, C++, C#, Django, Django Rest Framework, Go, Hibernate ORM, Java, Jenkins, J2EE, KnockoutJS, Kubernetes, Python, Selenium, Spring Boot, Spring Framework, Spring Security, SQL

AWARDS

2015 IBM Manager's Choice Award

2015 IBM Global Business Services Service Excellence Award

2015 Baton Rouge Client Innovation Center Hackathon Winner

CERTIFICATIONS

AWS Solutions Architect Associate

AWS SysOps Administrator Associate (Inactive)

- Enabled dynamic resource management for Kubernetes pods through the programmatic creation of Vertical Pod Autoscaler helm charts and Helmfile.
- Implemented long term pull request build logs storage with Tekton Results allowing developers to retrieve logs to diagnose code issues before merge in pod based build system.
- Developed Golang based software for enforcement of changesets in pull requests with bitbucket webhooks. Achieved high availability using kubernetes deployment.
- Allowed system administrators to track virtual machine ownership as the technical lead for summer college interns developing a REST microservice solution using Angular 18, Django REST Framework and VMWare VCenter.
- Facilitated versioned deployment of DevOps-tools by implementing changeset functionality in DevOps repositories.
- Enhanced DevOps environment monitoring by developing virtual machine memory and storage custom metric dashboard solution using Grafana, Jenkins and Python and Kubernetes.
- Maintains development, stage and test environments for microservice kubernetes deployments of government accounting software.
- Simplified developer workflow and change tracking by implementing changeset functionality for microservice repositories.
- Eliminated performance bottleneck with Cloud Native push notification software in AWS by increasing memory available to AWS Lambda functions.
- Provided on-demand code deployment to developers by building parameterized deployment functionality into Jenkins pipelines.
- Automated manual code count commit verification process using Python.
- Implemented support for RHEL virtual machines in Ansible VM creation tool.
- Enabled automated upgrade to new webMethods version by updating Ansible playbooks.
- Enabled rapid software deployment by installing Jenkins in Openshift clusters and preparing machines for building software.
- Instituted rapid new environment deployment via a Python solution with Jinja2 and Jenkins pipeline for templating configuration files.
- Enabled on demand deployment of the Jackrabbit print utility to environments through Jenkins.
- Enabled developer self-service by developing a Python program that communicates with the Bitbucket REST API to create forks of existing projects.
- Provided developer self-service fork creation functionality with a REST multi-threaded python solution enabling developer self-service and reducing CM workload.
- Reduced the time commitment of the code release packaging process from hours to minutes by developing a Python solution including RESTful functionality.

Automated Test Developer for Multi-Cloud Infrastructure Management Software

- Wrote and manually executed a series of regression tests each program increment.
- Developed a design pattern based automated test framework using Java and Selenium for cloud management tools to confirm proper system functionality and customer experience. These tests verified system functionality according to product owner requirements including:
 - Ensuring data rendered correctly in graphs.
 - Ensuring the breadcrumb user navigation feature functioned as designed.
 - Testing the user-defined metric based alerting system.
 - Verifying proper search filtering functionality.
 - Verifying account recovery mechanisms
 - Confirming the successful creation and deletion of resources in AWS environments.
 - Verifying cloud service providers and user accounts can be integrated with the system.

C++/ Java Maintenance Developer for Government Accounting Software

- Corrected an issue where minimum password length requirements were not enforced.
- Corrected issues where buttons did not display correctly.
- Corrected an issue where data would disappear from user entry fields.
- Corrected an issue involving incomplete transmission of data using SOAP.
- Corrected an issue where account recovery emails were not sent.
- Corrected an issue where remaining loan balances were calculated incorrectly.
- Corrected an issue where tabbing over buttons would cause radio buttons to be deselected.

Full Stack Web Developer for FOIA Website

- Created user input verification functionality for forms using KnockoutJS.
- Created the functionality allowing dropboxes to be populated with data from Alfresco CRM.
- Using Jackson and Hibernate, created functionality for REST based responses to be mapped to Java objects.
- Tested and corrected issues in user interface 508 compliance.

ROLES AND PROJECTS AT VENTURE AVE INC

Software Developer for Social Media Application

- Designed Spring REST API prototype for social networking application with Spring Security. Designed AWS DynamoDB instance for storing user accounts.

- Created API Gateway with Lambda functions for adding, updating and deleting user accounts in DynamoDB.
- Created Lambda authorizers for API security and role based access control.
- Created Lambda function for storing, retrieving and deleting user media in S3.
- Created facial recognition software in Python using face recognition library.
- Designed CloudFormation templates for creation of AWS VPC infrastructure to host applications.
- Implemented WAF rules for company website.
- Migrated company website to S3 with CloudFront distribution

ROLES AND PROJECTS AT IBM

Software Developer for Client Payment Software for Clothing Company

- Wrote system architecture documentation for client approval.
- Participated in meetings with clients collecting requirements.
- Developed functionality for C# XAML payment software for calculating user payment totals and taxes based on geography to enable the client to perform on-location customer transactions.

Tier-Two Client Technical Support for Telecommunications company

- Monitored data dashboards to guarantee client ability to resolve customer issues.
- Wrote scripts specifying the logic for directing customer calls to the appropriate support in Cisco ICM allowing customers to reach the appropriate automated support or appropriate support personnel.
- Ensured product accuracy by performing manual testing for Cisco ICM scripts by verifying phone calls reached the intended support.
- Participated in on-call rotation supporting client issues after hours.
- Guaranteed service quality by monitoring daily reports for dropped call issues.
- Maintained and filed required documentation for the list of client requested blocked telephone numbers to enable agents to resolve customer issues.
- Trained and onboarded team members.

Software Developer for Rental Payment Software for Car Rental Company

- Streamlined customer car rental throughput by developing rental management software in C#.
 - This software is responsible for storing a new rental transaction in database tables and performing logic to determine the rental type and duration. Using SQL databases and REST functionality, it allows each location to customize rental duration periods and provide custom messaging on digital displays increasing customer throughput.

- Resolved user support helpdesk issues including resolving missing addresses and employee account access.

Lead Architect for Traffic Tracking Software

- Designed and implemented Django traffic data tracking and management tool with AngularJS, Django REST framework and Google Maps tools.
- Utilized Django to receive notifications from a custom Android application and geo-fencing to record fluctuations in traffic.
- Django was used for user account control and the REST framework allowed Angular front-end
- Used Google Maps tools to render heat maps and graphs based on the data and date ranges entered.

