

Donald W. Morton
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Summary

Versatile systems engineer with 20 years of experience stabilizing applications and 10 years of experience running CI/CD.

Professional Experience

Senior Platform Engineer, MarketAxess, March 2026 – Present

- Support developer platforms (Grafana, Mimir, Loki, Tempo, Bitbucket, Jenkins).

Senior Release Engineer, MarketAxess, March 2022 – March 2026

- Manage trading system builds and releases using Jenkins and Python.
- Wrote Python code for an in-house deployment tool (Skyhook).
- Set up a versioned pipeline system in Jenkins so that pipeline updates would not affect minor releases.
- Improved application build times by 64% and improved application deployment times by 62%.
- Deployed and maintained Grafana, Loki, Mimir, and Tempo stack on Kubernetes.

Build and Release Engineer, Graylog, March 2020 – March 2022

- Migrated Jenkins CI environment to an infrastructure-as-code implementation using Terraform, Ansible, Docker, and AWS.
- Rewrote and simplified CI jobs in Groovy using Jenkins Shared Libraries, eliminating code duplication. Automated job creation using multibranch pipelines to reduce manual setup and increase stability.
- Created RPM and Debian packages for Graylog Sidecar, Graylog Enterprise, and Graylog Forwarder.
- Managed build and release of Graylog across multiple formats, including OS packages, Docker images and OVA images.
- Automated a heavily manual release process, decreasing release time from 4 hours to 1 hour.

Principal Software Engineer, Walmart - Infosec Decision Automation, June 2019 – March 2020

- Support vulnerability management system (Brinqa).
- Set up monitoring and alerting system using Prometheus and Grafana. Deployed using Docker containers into Walmart's OneOps cloud.

Senior Systems Engineer, Sam's Club, Sam's Club Tech Infrastructure, April 2018 – June 2019

- Supported Microsoft Azure Cloud for Sam's Club Tech.
- Developed ARM templates for self-service deployment site, allowing for standardized configurations across all Azure resources.
- Wrote alerting infrastructure in Python for creating tickets and notifications from Azure, providing cloud team a centralized view into all events.
- Created Azure design patterns to standardize best practices.

Systems Analyst, Walmart – Software Delivery and Enablement, November 2012 – April 2018

- Supported Walmart build systems with 100,000 jobs. (Teamforge, Anthill Pro, Jenkins, Looper CI)
- Set up Redhat Linux 6 and Suse 12 compile servers in Walmart build environment.
- Supported 5,000 developers by troubleshooting builds for C, 4gl, Unix Cobol, Java, and .NET.
- Stood up Cloudbees Jenkins. Led migration of all Walmart builds, resulting in greatly increased flexibility in CI/CD pipelines.
- Wrote support portal using Java and Tomcat. Automated creation of support tickets and reduced calls to helpdesk.

- Set up monitoring with Nagios, significantly improving application stability and reducing support tickets.
- Automated setup of Jenkins nodes with Puppet, standardizing build tool versions and improving build stability.
- Set up dynamic node creation in Jenkins via OpenStack, allowing Jenkins to handle massive build spikes.
- Stood up Automtic application for automated application deployment.
- Automated setup of Looper CI instances with Ansible for deployment in Walmart's OneOps cloud environment.
- Wrote migration service in Python for moving legacy C jobs from Anthill Pro into Looper CI, allowing them to be built inside Docker containers.

Programmer Analyst, Walmart – Decision Systems Application Development, August 2010 – November 2012

- Brought stability to active directory sync application written in Java, greatly reducing support tickets and after-hours pages.
- Supported and managed Oracle BI application. Assisted in setting up new clusters on Suse Linux.
- Wrote application in C to allow users to update product characteristics from a spreadsheet.
- Worked with vendors to support JDA application (3rd party sales forecasting tool). Added new backend datafeeds, performed load testing, updated application configurations, etc.
- Wrote a series of Bash scripts to pull multiple datafeeds from Teradata for vendors. Handled very large datasets (all store sales and all Walmart items).
- Participated in migrating large reporting application written in C from HP-UX to Linux.

Programmer Analyst, Walmart – Remedy Team, November 2004 – August 2010

- Responsible for maintaining and administering over 800 in-house BMC Remedy applications. This included ITSM applications such as: Incident Management, Change Management, Problem Management, etc.
- Completed Remedy 7.1 Upgrade and Database Migration.
- Support applications used by all Call Centers within Walmart. Areas include: Field Support, NOC, Control Room, 1-800-Walmart, Logistics, DCs, Walmart.com, Emergency Operations Center, and Sam's Club Call Center.
- Worked with Walmart Call Centers to improve Remedy user interface layout.
- Rolled out 6.3 and 7.1 Remedy client to Walmart Home Office users.
- Coded Change Management integration into POWER build system for SOX compliance.

Skills

Languages: C, C++, Python, Java, Groovy, Ansible, Unix Shell Scripting, SQL

Platforms: Linux, Windows, HP-UX, AIX

Education

B.A., Computer Science

University of Arkansas

Anthropology Minor