

Bernhardt Dungan

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Senior Software Engineer

Software Solutions | WebSphere Application Server | Infrastructure Tools | Build Systems | Scalable Tools

PROFESSIONAL SUMMARY

Accomplished Senior Software Engineer with experience in full stack development, enhancing software reliability and security. Proficient in debugging, and root cause analysis. Adaptable to numerous technologies with a passion to learn. Expertise in APIs, cloud infrastructure, containerization, scripting, and the full software development lifecycle (SDLC). Proven success in leading global integrations for both traditional and microservice architectures. Eager to leverage and expand experience in a software development role.

- **Process Automation & Efficiency** – Developed and implemented automation tools that significantly improved system reliability and efficiency across complex cloud and on-prem environments, streamlining CI/CD pipelines.
- **Cloud & DevOps Expertise** – Advanced proficiency in cloud infrastructure and DevOps tasks such as containerization, version control theory, vulnerability remediation, and hybrid cloud deployments.
- **Full Stack Development** – Maintain, secure, and deploy robust solutions of scalable web applications, encompassing both front-end and back-end technologies, with a focus on WebSphere integration.
- **Awards** – IBM OTAA recipient, recognized with numerous IBM Blue Points awards for providing expert solutions and helping peers overcome technical obstacles, reinforcing reputation as a go-to resource for build and deployment challenges.

AREAS OF EXPERTISE

Software Development and debugging | Build and Test Automation | Root Cause Analysis | DevOps | Site Reliability | IBM Cloud | Linux | Windows | SCM (Github) | API Integration | Release Engineering | Agile Methodologies

WORK EXPERIENCE

Senior Software Engineer
IBM – Lowell, MA

2018 – 2024

Led DevOps for the Knowledge Catalog API team. Created and updated Jenkins and Travis builds. Managed IBM Cloud accounts, object storage, and IAM keys for build and test automations. Created tools for reporting Cloudant query results to slack. Oversaw automated deployments to IBM Cloud using kubectl and OpenShift tools to update, scale, and monitor deployments and secrets.

Cloud Infrastructure & SaaS Operations Leadership

- Designed and managed containerized applications using Docker and Helm, leveraging Infrastructure as Code (IaC) principles to automate deployment workflows. Provisioned Software as a Service (SaaS) applications on IBM Cloud, implementing chart templating to ensure seamless scalability and consistency across multiple geographic regions.
- Assisted in securing WebSphere Liberty base images by scanning and resolving open-source vulnerabilities, defining minimalistic server.xml, and building the images to exclude keystore and default password properties.
- Led SWAT meetings to diagnose SaaS outages, collaborating with availability managers and developers to resolve the problems. Contributed to root cause analysis for outages and provided opinions to prevent reoccurrence. Monitored deployments for real-time issues regarding performance, CPU utilization, disk usage, memory, and more.
- Supported a global development team of 20+ engineers to ensure new requirements, enhancements and bug fixes get delivered and deployed on SaaS every week and monthly for on premise releases. Collaborated with these teams to streamline build and deployment processes and improve overall efficiency and any automation needs.

CI/CD Pipeline Optimization & Version Control Management

- Managed Git branches and tags to streamline monthly on-premises release cycles, ensuring version control and deployment accuracy. Collaborated closely with developers to create, test, and deploy hotfixes on Red Hat Kubernetes OpenShift clusters, validating changes to deliver robust solutions for on-premises customers.
- Increased development velocity and reduced code duplication by consolidating build scripts and Dockerfiles of multiple different Node.js applications into a centralized reusable library.
- Incorporated multi-stage build in Dockerfiles to reduce layers, optimize security, and increase build control.
- Oversaw the administration of Jenkins servers and nodes, configuring and maintaining Linux and Windows virtual machines to ensure seamless integration and optimized job execution. Managed user groups, plugins, and job configurations within Jenkins to ensure robust CI/CD pipelines and streamlined development workflows.

