



Danna Villegas

MLOps Automation Senior Lead Engineer

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SUMMARY

Proven MLOps Automation Senior Lead Engineer with over 10 years in automation engineering. Drove improvements in data-driven projects by crafting innovative solutions. Experienced in leading teams and collaborating widely across functions to meet objectives. Focused on establishing visions and strategies that foster efficiency, I thrive in environments where proactive problem-solving meets technical precision. My hands-on experience spans developing unattended delivery pipelines for various data models, creating automated testing frameworks, and continuously monitoring model performance to mitigate issues swiftly. Eager to contribute expertise at Innovative Tech Solutions.

EXPERIENCE

MLOps Automation Lead

Tech Innovations Group 📅 January 2020 - Present 📍 Dallas, TX

Lead development and deployment of MLOps automation solutions for high-stakes projects. Identify barriers within the analytics lifecycle and develop meaningful automation strategies to enhance overall productivity. Collaborate extensively with cross-functional teams for optimizing build and release processes.

- Spearhead implementation of MLOps automation solutions tailored for critical projects.
- Engage with diverse teams to improve integration across build and release processes.
- Create comprehensive automated testing frameworks ensuring quality management.
- Focus on performance monitoring and swift troubleshooting of models post-deployment.

Senior Automation Engineer

Data Solutions Inc. 📅 March 2015 - December 2019 📍 Austin, TX

Oversaw a team dedicated to creating automated solutions for client projects focusing on data processing efficiencies. Designed critical CI/CD pipelines facilitating the deployment of multiple software products while fostering collaborations between product and testing teams.

- Led engineering team in the development of automation solutions addressing complex client needs.
- Designed and executed CI/CD pipelines augmenting the speed of software deployments.
- Collaboratively identified opportunities for improved workflows through increased automation.
- Monitored project outcomes to ensure alignment with goals and optimization of operations.

Automation Engineer

NextGen Analytics 📅 June 2012 - February 2015 📍 New York, NY

Created scripts aimed at enhancing analytics processes, working closely with cross-functional collaborators to tackle production challenges effectively. Developed feedback mechanisms ensuring ongoing performance evaluations benefiting system adjustments.

- Developed proactive automation scripts improving data management tasks.
- Collaborated collaboratively with teams resolving substantial production issue.
- Implemented consistent feedback cycles ensuring optimal operation of automated systems.
- Documented frontline experiences aiding stakeholder understanding of automation enhancements.

LEADERSHIP & AWARDS

- Employee of the Year at Tech Innovations Group - Recognized for outstanding leadership and impactful automation implementations in 2021.
- Best Automation Initiative Award at Data Solutions Inc. - Honored for designing unique CI/CD pipelines in 2017.

STRENGTHS

- 💡 **Creative Problem Solver**
Pioneered innovative MLOps solutions that drastically improved project timelines and results, becoming a key resource.
- 👥 **Collaborative Team Leader**
Fostered significant partnerships across technical domains, and peers sought advice for complex automation challenges.
- ⚙️ **Efficient Process Optimizer**
Analyzed workflows rigorously, implementing automation that led to smoother execution and less manual oversight.
- 👁️ **Strategic Visionary**
Crafted long-term automation strategies reflecting organizational goals, often presented to C-level stakeholders.
- 🔧 **Resourceful Debugger**
Revamped testing approaches, leading to effective identification of system bottlenecks and increased model uptime.

SKILLS

MLOps Automation Engineering

CI/CD Python JavaScript

Docker Jenkins DataOps

ModelOps Agile Development

Performance Tuning

Troubleshooting Test Automation

Collaboration Tools

Version Control

LANGUAGES

English Native

Spanish Proficient

MY CAREER



- MLOps Automation Lead at Tech Innovations Group (6.4 Years)
- Senior Automation Engineer at Data Solutions Inc. (4.8 Years)
- Automation Engineer at NextGen Analytics (2.7 Years)

EDUCATION

Bachelor's Degree in Computer Science

University of Illinois 🎓 GPA: 3.5 📅 2012 📍 Champaign, IL

Coursework: *Data Structures, Algorithms, Database Management, Software Engineering*

CERTIFICATIONS

- Certified Kubernetes Administrator (CKA) 📅 2021
- AWS Certified Solutions Architect 📅 2020

TECHNICAL SKILLS

- **Coding Languages:** JavaScript, C++, Python
- **Continuous Integration Tools:** Jenkins, Docker
- **Development Methodologies:** Agile, Waterfall
- **Automation Tools:** Ansible, Terraform
- **Cloud Services:** AWS, GCP, Azure
- **Monitoring Tools:** Prometheus, Grafana
- **Database Technologies:** MySQL, MongoDB, PostgreSQL
- **Version Control Systems:** Git, Bitbucket
- **Messaging Platforms:** RabbitMQ, Kafka
- **Testing Frameworks:** JUnit, Selenium

PROFESSIONAL AFFILIATIONS

- Member of the Association for Computing Machinery, contributing to discussions around innovative tech solutions.
- Active participant in local hackathons, bringing fresh ideas into process automation advancements.

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST