

Contact

nilesh_jaisin@yahoo.co.in

www.linkedin.com/in/nileshsjaiswal
(LinkedIn)

Top Skills

Machine Learning

Microsoft Azure

DevOps

Languages

Marathi (Professional Working)

English (Full Professional)

Hindi (Full Professional)

Certifications

Datacenter Transformation 2.0

Ansible

Cloud Automation

PGP in AIML from UT, Austin Texas

Honors-Awards

Standing Ovations Award

Star Award

Client Recognition

Publications

Policy-Driven Shift-Left Security for Hybrid OpenShift CI/CD Pipelines

Adaptive Authorization for Agentic AI Systems

Future-Proofing Identity Security for Agentic AI Systems: Design, Implementation, and Evaluation of an Identity Fabric

SATHOS: Self-Adaptive Trust-Hierarchical Orchestration for Zero-Trust DevSecOps

Nilesh Jaiswal

Lead, Service Engineering @ EA | DevOps Engineer III | Post Graduate in AI | IEEE-Published Researcher | Agentic AI, Zero Trust & DevSecOps

Austin, Texas, United States

Summary

I am a DevOps and platform engineering professional with expertise in CI/CD automation, infrastructure reliability, DevSecOps, and cloud-native technologies. My experience spans building scalable deployment frameworks, optimizing release processes, and implementing observability solutions using tools such as Prometheus and modern container orchestration platforms. Currently serving as a Lead in Service Engineering / DevOps Engineer III at Electronic Arts, I focus on driving operational excellence through automation, secure software delivery, and platform engineering practices. I collaborate across cross-functional teams to streamline development workflows, improve deployment reliability, and accelerate delivery cycles while maintaining strong security and compliance standards. My technical interests include Zero-Trust architecture, Agentic AI systems, DevSecOps, OpenShift CI/CD pipelines, identity security, and AI-driven infrastructure automation. I am passionate about building resilient and secure engineering ecosystems that enable teams to innovate faster. In addition to my industry experience, I am an IEEE-published researcher with four peer-reviewed conference papers published in 2026 across ICAISET and SoutheastCon. My research focuses on Zero-Trust DevSecOps pipelines, shift-left security for OpenShift CI/CD, and identity security for agentic AI systems. I enjoy solving complex engineering challenges, mentoring teams, and exploring the intersection of AI, security, and modern software delivery.

Experience

Electronic Arts (EA)

1 year 6 months

Lead, Service Engineering

January 2026 - Present (6 months)

DevOps Engineer III
January 2025 - Present (1 year 6 months)
Austin, Texas, United States

Intel Corporation
Sr DevOps Engineer
October 2021 - October 2024 (3 years 1 month)
Austin, Texas, United States

AI-Driven Deployment Automation: Developed AI-enhanced frameworks for deploying Kubernetes pods and Azure VMs, integrating machine learning for optimal deployment strategies and resource allocation in dynamic build environments.

Intelligent CI/CD Pipeline Development: Designed CI/CD pipelines using GitHub Actions and Jenkins, leveraging AI-based anomaly detection and predictive analysis to facilitate faster, error-free deployments and efficient resource scaling of Kubernetes pods and VMs.

Kubernetes Development and Operator Management: Built and managed Kubernetes operators with KubeBuilder and GoLang, implementing custom resource definitions (CRDs) for dynamic VM and pod provisioning in build environments.

Helm Chart Expertise: Created and deployed Helm charts to streamline Kubernetes application management and configuration, enhancing deployment efficiency.

Infrastructure Automation with Machine Learning: Used Azure Collection Roles and machine learning models to automate infrastructure management, proactively resolving potential bottlenecks and ensuring stability across cloud environments.

AI-Enhanced Metrics and Monitoring: Developed AI-powered Prometheus exporters for QuickBuild, automating metrics collection and analysis to enable real-time insights, proactive system tuning, and optimized performance in Kubernetes environments.

Docker and Containerization: Managed Docker containers within Kubernetes clusters, ensuring smooth container deployment and lifecycle management across cloud and on-premises platforms.

AI/ML-Powered JIRA Ticketing with LLMs: Created an AI-driven system with Large Language Models (LLMs) for intelligent log analysis, pattern recognition, and issue categorization, which automatically opens and assigns JIRA tickets, reducing manual work and improving response times. Integrated MLOps pipelines for model updates and performance monitoring.

Acxiom

Sr. DevOps Engineer

September 2018 - October 2021 (3 years 2 months)

Austin, Texas Area

- Designed and Implemented DevOps and Cloud Solutions: Led initiatives to define, design, and implement robust DevOps solutions, including creating reference architectures, automating end-to-end application and deployment processes using Terraform, and optimizing cloud infrastructure systems across AWS, Azure, and GCP to ensure stability, integrity, and efficient operation.
- CI/CD Automation and Integration: Developed and deployed CI/CD frameworks using Jenkins, AWX, and Terraform for various applications, including AutoPatching modules, operating systems, databases, and cloud infrastructure, to streamline development workflows and automate daily operational tasks.
- Advanced Cloud Automation and Monitoring: Implemented custom automation analytics using statistical analysis for cluster management, developed pipelines to track processes, monitor cloud activities, and send alerts for encountered issues, enhancing visibility and operational efficiency across multi-cloud environments.
- Security and Compliance: Integrated security vulnerability client modules using Nexpose SDK API and enforced infrastructure compliance policies via Terraform Cloud and Sentinel within CI/CD pipelines, ensuring continuous security, compliance, and proactive risk management for OS, database, and cloud AutoPatching.

- Leadership and Collaboration: Spearheaded requirement gathering, project planning, and Scrum ceremonies, facilitating cross-functional collaboration with cloud architects and DevOps teams to align project goals with business objectives, ensuring the successful delivery of cloud and infrastructure technology solutions.

Braves Technologies

DevOps Engineer

August 2017 - September 2018 (1 year 2 months)

Greater Chicago Area

Developed framework which enable CI/CD mechanism for all the Wheels Application, this increase frequency of release process, Identify the issue way ahead during development process, Implemented Pipeline for this process, which help the track of the processes at various stage and monitor the activity and send alert of various issues encountered.

- Requirement gathering, Project Planning
- Decision making in fast and best suited for implementation
- Organized and facilitated sprint planning, daily stand-up meetings, reviews, retrospectives, release planning, demos and other Scrum-related meetings
- Implementing end to end application and deployment.
- Writing Unit test cases.
- Setup PowerShell DSC server in the Wheels infrastructure.
- Implement CDE mechanism.
- Deploying Application using PowerShell DSC.
- Deployed MySQL using PowerShell DSC.
- Created PowerShell configuration script for various deployment and configuration
- Automated CI/CD framework using Jenkins
- Own and lead initiatives to define, design, and implement DevOps solutions which includes reference architectures, estimates, and costing
- Advise business and technology delivery leadership on how to translate the client's infrastructure and automation business requirements into executable technology solutions
- Perform profiling, troubleshooting of existing solutions
- Review and audit of existing solution, design and system architecture
- Define common business and development processes, platform and tools usage for mobile solutions and delivery

- Implemented CI for QA (ALM and Selenium) for web application
- Implemented Data Analytics on user response using AWS Kinesis Stream, SQS, S3
- Implemented packaging for multiple application using open source WIX installer.

HARMAN International

Product Architect - Software Engineering

January 2011 - August 2017 (6 years 8 months)

Pune Area, India

- Implemented CI/CD process using Jenkins
- Implemented Pipeline for CI process
- Worked on implementations for streaming data pipelines with strong experience using tools like Kinesis, AWS SQS, AWS S3 and more to stream data in real-time between databases.
- Worked on version Control Tools Perforce, Git, CVS.
- Design, Developed and managed CI and CD environments as well as prioritized functioning period and quick server response time.
- Implementation of Automated Environment Provisioning using open source tools like Chef and Vagrant.
- Hands on experience on various DevOps tools such as Chef, Jenkins, Scons, GIT, Perforce, JIRA.
- Continuous Integration (CI), Continuous Delivery (CD) & Continuous Monitoring.
- Setting up new DevOps environment by migrating from legacy manual release and deployment activities.
- Working on integration of data from multiple data sources via RESTful API's.
- Implementation of Automated Environment Provisioning using open source tools like Chef.
- Development and version control of Chef Cookbooks. Testing of Cookbooks using Foodcritic, Test Kitchen and running recipes on nodes managed by on-premise Chef Server.
- Designed and implemented scalable, private cloud architecture based on vRA and Amazon Web Services (AWS) EC2 CLI.
- Good knowledge of Amazon EC2 and other services of the AWS family.
- IAM and its policy management to restrict users to AWS Resources.
- Implementation of Auto Scaling for instances under ELB using ELB Health Checks.
- Able to create scripts for system administration, AWS using languages such as BASH, Perl and Python.

- Profound experience of more than 3 years in developing and managing Agile/ Scrum and Waterfall projects.
- Knowledge of using Routed Protocols: FTP, SFTP, SSH, HTTP and HTTPS.
- Highly experienced in setting up Build Servers for build and deploy automation.

Symantec

Sr. Software Engineer

May 2006 - January 2011 (4 years 9 months)

Pune Area, India

- Requirement analysis, design, coding, bug fixing
- Code work though of VxVM code.
- Deployed the kernel module.
- Writing Unit test cases and integration test cases for the defects.
- Performed Integration and system test.
- Contribute on code review process.
- Mentoring the junior members of the team.
- Helped creating development setup.
- Pushed the code into development branch.
- Monitored code changes behavior in nightly build.
- Giving solutions to the problems reported on installer.
- Provide a solution for the installer with regard to the schedule and the quality plans.
- Ensure that any issues/risks are brought to the attention of the Mgmt.
- Provide technical support to other team members if required
- Manage Etrack status up-to-date with respect to incident working.
- Provide Co-existence support for other VERITAS product.
- Provide space check feature.
- Provide “-installonly and –configure” option to the installer.

CGI

IT Consultant

May 2005 - September 2006 (1 year 5 months)

Karnataka, India

Working with Sustenance team in Prepaid billing system is an INP based product which used for calculating the bills of a customer making mobile call for different network and same network.

- Giving solutions to the problems reported on the product INP.

- Aware of the responsibilities with regard to the schedule and the quality plans.
- Attend review meeting in a scheduled manner and ensure that the Tech Lead are kept up to date with regards to your schedules.
- Ensure that any issues/risks are brought to the attention of the Tech lead.
- Provide technical support to other team members if required.
- Remedy status to be maintained up-to-date.
- Writing UT/IT test cases and testing for the same.

BROADBAND PACENET (INDIA) PRIVATE LIMITED

Embedded Software Engineer

November 2004 - May 2005 (7 months)

Mumbai Area, India

This project was based on STB Box's conditional access system, to make sure TV channels are properly subscribed by the service provider.

- Implementation of CAS module in SetupTop Box.
- Design Front End GUI for Home genie STB.
- Attend review meeting in a scheduled manner and ensure that the Tech Lead are kept up to date with regards to your schedules.
- Ensure that any issues/risks are brought to the attention of the Tech lead.
- Provide technical support to other team members if required.
- Writing UT/IT test cases and testing for the same.

Education

The University of Texas at Austin - McCombs School of business
Post Graduate Program in Artificial Intelligence and Machine Learning, Data science · (2020 - 2021)

Priyadarshini Engineering College, Hingna Road

Bachelor of Technology - BTech, Computer Science · (1998 - 2001)

Anjuman Polytechnic

Diploma in computer Engineering, Computer Engineering · (1994 - 1998)

St. John High School, Nagpur, Maharashtra

SSC, General Studies · (1984 - 1994)