

# Omar Aliyev

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<https://aliyevom.github.io/dev/>

## Summary

**DevOps & Kubernetes Expertise:** As a Certified Kubernetes Administrator (CKA), I wield a deep understanding of containerization, orchestration, and microservices architecture. By architecting and managing Kubernetes clusters, I empower applications to scale effortlessly and maintain impeccable availability.

**AWS DevOps Mastery:** Holding the title of an AWS Certified DevOps Engineer, I specialize in harnessing Amazon Web Services to engineer seamless CI/CD pipelines, optimize infrastructure, and automate deployment workflows. My proficiency spans a diverse array of AWS services, including AWS CodeDeploy, AWS CodeCommit, AWS Lambda, and more.

**Python Enthusiast:** My fluency in Python serves as a cornerstone for automation, scripting, and building versatile tools. From creating efficient backend services to orchestrating complex workflows, Python is my go-to language for driving innovation and efficiency.

**Node.js Services Developer:** With a certification as an OpenJS Node.js Services Developer (JSNSD), I embrace the power of Node.js to craft lightning-fast, scalable, and event-driven applications. Leveraging Node.js, I engineer real-time communication, robust APIs, and dynamic user experiences.

**Toolbox of Services & Tools:** My toolkit extends beyond the ordinary, encompassing AWS CloudTrail, AWS CloudWatch, Docker, Flask, AWS CloudFormation, and more. I thrive on crafting end-to-end solutions that empower businesses to navigate the cloud landscape with confidence.

## Experience



### Senior DevOps Engineer

Hawkincloud

Jan 2023 - Present (8 months)

AWS CloudTrail is a service provided by Amazon Web Services (AWS) that helps users enable governance, compliance, and operational and risk auditing of their AWS account. By recording API calls and other activity within an AWS account, CloudTrail provides a comprehensive history of changes and activity that can be used for security analysis, resource change tracking, and troubleshooting.

CloudTrail can also be used to streamline operational and troubleshooting tasks, by allowing users to quickly pinpoint the root cause of an issue or identify the source of a change. This can help reduce mean time to resolution (MTTR) and improve overall system uptime and performance.

Enhanced Security and Threat Detection:

- Utilized CloudTrail's detailed logs to proactively identify and mitigate security risks.
- Decreased the average time to identify potential security threats by 30%, bolstering our ability to respond swiftly and minimize potential damages.

Streamlined Troubleshooting with Actionable Insights:

- Engineered custom dashboards using AWS CloudWatch, showcasing real-time CloudTrail data and offering actionable insights.
- Accelerated issue identification and resolution, resulting in a 40% reduction in average incident resolution time.

Continuous Improvement through Feedback Loop:

- Collaborated closely with development teams to utilize CloudTrail insights for optimizing application performance. Achieved a 15% improvement in application response time and a 20% reduction in resource utilization through iterative feedback loops.



## **Teaching Assistant**

UMass Boston

Sep 2022 - Jan 2023 (5 months)

Installed, configured, and administered a VMware Linux server to support classes and student projects. Designed an innovative CS teaching lab and wrote a state grant to fund its creation. Taught my common core of courses covering Python, HTML, CSS, JavaScript, DOM, CGI, PHP, Embedded SQL, XML, Web Services, Apache LAMP server management and security, and System Administration (using Linux).

Computer-based training software — Piazza Learn; Learning management system GNU; Moodle;

Database user interface and query software — Piazza software; Database software technology; Access technology

Development environment software — Python; GNU & Linux technology; Programming languages; Software development tools

Word processing software — Collaborative editing software; Sub Directory.



## **Infrastructure System Engineer**

ITSOL

Nov 2017 - Jan 2023 (5 years 3 months)

- **Optimized Server Performance:** Achieved a 20% reduction in server response times for critical applications by leading initiatives to fine-tune Windows Servers 2016 and 2019.
- **Enhanced Data Security:** Implemented multi-factor authentication and stringent access controls, resulting in a notable 30% decrease in security incidents and breaches over a 3-year period.
- **Streamlined User Management:** Developed and deployed automated user provisioning and deprovisioning processes, slashing user account setup time by 50% while bolstering security against unauthorized access.
- **High Availability Infrastructure:** Engineered a fault-tolerant infrastructure architecture, ensuring an exceptional 99.99% uptime for critical services and applications, underpinning uninterrupted business operations.

- Efficient Cloud Adoption: Successfully orchestrated the seamless migration of 10 legacy applications to AWS, yielding a 25% reduction in infrastructure costs and empowering enhanced scalability to meet burgeoning user demands.



## **DataOps and Cloud Ops**

### **Xketum**

Jun 2021 - Dec 2022 (1 year 7 months)

Engineer with a proven track record leading a strategic vision to ensure higher infrastructure stability, higher customer confidence, and lower costs. Knowledge of network infrastructure and cloud computing. Technology background focused on cloud infrastructure and security. Engineer with extensive experience in Cloud, Automation, Kubernetes, Docker, Prometheus, Grafana, Sysdig, Ansible, and Python. Monitoring EC2 instances, Lambda functions, and web server logs using CloudWatch. A continuous integration and deployment process using Jenkins, Gradle, CircleCI, Docker, ECR, or similar tools. AWS IAM, Jenkins, and SCM such as Git, Bitbucket, and SCP tools like Git & Bitbucket users, groups, roles, and policies. Developed big data analytic solutions with high availability, auto-scaling, and continuously deployed architectures.

- Led strategic initiatives to enhance infrastructure stability, customer confidence, and cost efficiency.
- Utilized Kubernetes, Docker, and cloud automation tools to deploy and manage applications.
- Monitored and optimized EC2 instances, Lambda functions, and web server logs using CloudWatch, Grafana, and Prometheus.
- Implemented continuous integration and deployment pipelines using Jenkins, CircleCI, and Docker.
- Impact: Achieved higher infrastructure stability, lower costs, and efficient application deployment.



## **A Platform as a Service (PaaS) Engineer**

### **Code Academy**

Dec 2018 - Mar 2021 (2 years 4 months)

5+ years of experience in designing, implementing, and managing cloud-based infrastructures on the AWS platform. Strong knowledge of AWS services such as EC2, S3, RDS, Elastic Beanstalk, and Lambda. Experience with automation and configuration management tools such as Ansible, Terraform, and CloudFormation. Knowledge of software development and scripting languages such as Java, Python, and Bash. Strong understanding of networking and security concepts in AWS. Strong knowledge of Linux/Unix systems administration and shell scripting. Excellent problem-solving and troubleshooting skills.

- Designed, implemented, and managed cloud-based infrastructures on AWS.
- Utilized AWS services such as EC2, S3, RDS, and Lambda to create scalable and reliable solutions.
- Automated infrastructure provisioning and configuration management using Ansible, Terraform, and CloudFormation.
- Applied strong scripting skills in Java, Python, and Bash for process automation.
- Impact: Enhanced development and deployment processes, resulting in improved efficiency and reduced time-to-market.

## Education



### UMass Boston

Bachelor of Science - BS, Information Technology  
2020 - 2023



### University of Debrecen

Bachelor of Science - BS, Mathematics and Computer Science  
Aug 2018 - Jun 2019

## Licenses & Certifications



**Introduction to AWS for Non-Engineers: 1 Cloud Concepts** - LinkedIn



**DevOps Institute Cert Prep: SRE Foundation (SRE)** - LinkedIn



**AWS for DevOps: Continuous Delivery and Process Automation** - CompTIA  
AdywWgFP4frzpftCuT5nHIgbNUiF



**DevOps Essentials+** - A Cloud Guru | A Pluralsight Company  
CF56D8D859D4



**DevSecOps** - A Cloud Guru | A Pluralsight Company  
F22FCF941448



**AWS Certified DevOps Engineer- Professional (DOP-CO2)** - A Cloud Guru | A Pluralsight Company  
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## Skills

System • • CERTIFIED KUBERNETES ADMINISTRATOR (CKA) • • AWS Certified DevOps Engineer  
• • OpenJS Node.js Services Developer (JSNSD) • AWS CodeDeploy • AWS CodeCommit • AWS  
CloudFormation • AWS Lambda • Ansible • Red Hat Enterprise Linux (RHEL)