

# Alexandru Albu

+40774038518 · alexalbu001@gmail.com · @mylinkedin  
London, UK - W2 6AR

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## PERSONAL PROFILE

Passionate mid level cloud engineer with a strong affinity for AWS, Terraform, CloudFormation, Docker and Python. Used to managing and architecting long term solutions and architectures for the client's infrastructure.

I require VISA Sponsorship for UK opportunities.

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## KEY COMPETENCIES

AWS	Linux / Bash	DNS, SSL/TLS
Terraform / CloudFormation	Git - Bitbucket / Gitlab / Github	AWS SSO / SAML2 / OneLogin
Docker / Kubernetes	C/C++ / Python - Data Structures, OOP	Agile / Kanban
		Grafana / Datadog / Cloudwatch

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## PROFESSIONAL EXPERIENCE

### AllCloud - ROMANIA, Bucharest

SEP 2022 - Present

#### DevOps Engineer

- Streamlined clients' infrastructure by designing and implementing automated remediation solutions leveraging a diverse range of AWS services; reduced incident response time by 50% and increased the SLAs by 35%.
- Administered 20+ multi-account AWS environments, reducing operational costs by 15% through effective resource allocation. Enhanced cybersecurity infrastructure that mitigated 40% of system vulnerabilities..
- In addition to technical roles, engaged with 6 clients through 50+ weekly meetings over a year, reviewing and updating the status of 30+ tickets each week. Successfully resolved 80% of client issues and initiated planning for 6 major projects.
- Led 2 major migrations to AWS, involving the transfer of 20+ pipelines for a GO application and 8+ jump-host servers, achieving a 20% reduction in operational costs, completing all migrations 2 weeks ahead of schedule and zero downtime.

### IBM - ROMANIA, Bucharest

JUL 2020 - SEP 2022

#### DevOps Engineer

- Oversaw the management of complex cloud-based infrastructure and optimised resources achieving a 15% cost reduction.
- Utilising Terraform and CloudFormation, I successfully deployed and managed scalable, secure, and efficient client infrastructure.
- Collaborated closely with Network and Security teams to handle alerts and bolster our cloud environment's resilience.
- Integrated AWS WorkSpaces with Active Directory and AWS SSO, which significantly simplified user access management and scaled our IT infrastructure.
- Implemented monitoring solutions using Grafana, DataDog and AutoPatcher and reduced downtime by 10%.

### IBM - ROMANIA, Bucharest

APR 2020 - JUL 2020

#### Cloud Microservices Intern

- Honed my Linux skills and automated numerous tasks using Ansible, while also deploying infrastructure with Terraform.
- Developed and deployed microservices using Docker and Kubernetes, further optimising our development and operational processes.
- Acquired hands-on experience with AWS services and best practices, laying the foundation for future cloud-based projects.

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## EDUCATION

### Bachelor's Degree

Majors: Cybernetics, Computer science and Statistics

Academy of Economic Studies - Bucharest, ROMANIA ( 2019 - 2023 ) - 9.5 Grade

### Master's Degree - progress

Majors: Computer science

Academy of Economic Studies - Bucharest, ROMANIA ( 2023 - 2025 )

## CERTIFICATIONS

### Amazon Web Services

AWS Solutions Architect Associate

AWS SysOps Admin Associate

AWS Developer Associate - progress

AWS Cloud Practitioner

AWS DevOps Professional - progress

### Other

CCNA 200-301

IBM Certified Cloud Advocate

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## PROJECTS

### DevOps Solution for Autoscaling - Thesis Project

**MAY 2023**

<https://solutionforscalability.com>

- Deployment & Configuration: Deployed a 3-tier web application on AWS EC2 using a golden image from AWS Image Builder.
- AMIs: Utilised custom Amazon Machine Images (AMIs) for quick and reliable instance launches.
- Infrastructure as Code: Provisioned the entire infrastructure using Terraform.
- Auto-Scaling & Load Balancing: Implemented auto-scaling and configured an Application Load Balancer for efficient traffic management.
- Web Server: Integrated NGINX for web server capabilities and reverse proxy features.
- Database: Connected the application to AWS DocumentDB for data storage.
- Monitoring: Utilised AWS CloudWatch for real-time monitoring and performance metrics.
- Frontend & Backend: Built the frontend using React.js and the backend using Node.js.

### AWS IaC with Terraform

**AUG 2022**

- Remote Backend Configuration: Configured a remote backend on S3 to store Terraform state, enabling server-side encryption for secure collaboration.
- Chicken-Egg Problem: Solved the chicken-egg problem related to initial state storage and configuration.
- EC2 & VPC Setup: Provisioned two EC2 instances in public subnets within a VPC, complete with an internet gateway and route table.
- Security: Configured security groups for controlling inbound and outbound traffic to instances.
- Load Balancing: Set up an Elastic Load Balancer for efficient traffic distribution.
- Auto-Scaling: Paired the Elastic Load Balancer with an Auto Scaling Group for dynamic scaling based on load.