

# Vlăduț-Andrei Adochiței

**Date of birth:** 02/01/1999 | **Nationality:** Romanian

## WORK EXPERIENCE

### **ENGIE GBS ROMANIA** – BUCHAREST, ROMANIA

#### **FULL STACK DEVOPS ENGINEER** – 02/06/2025 – CURRENT

As a Full Stack DevOps Engineer, I design and implement scalable, automated solutions to streamline and optimize our cloud infrastructure as well as develop applications that are used by various other departments to fulfill their roles. My work directly supports the company's mission-critical infrastructure as well as ENGIE's global networking backbone (Industrial + Enterprise), enabling near-zero downtime and seamless adaptation to evolving business needs.

Key responsibilities:

- Architect and develop full-stack applications to automate infrastructure provisioning, monitoring, and maintenance.
- Build and maintain CI/CD pipelines to support rapid and secure software delivery.
- Collaborate with cross-functional teams to integrate cloud-native services and ensure system reliability and scalability.
- Monitor system performance and implement proactive solutions to improve uptime and efficiency.
- Design and implement serverless applications to automate and monitor core network operations.
- Build scalable, event-driven architectures using AWS services such as Lambda, API Gateway, EventBridge, and DynamoDB.
- Integrate and maintain secure authentication and access control mechanisms using OIDC, SAML and OKTA.

Tech Ecosystem:

- Event Driven Architecture, MVC Paradigm, Microservices-based Architecture
- Trunk-based Development flow with cross-functional teams
- Agile flow

Cloud and Infra Ecosystem:

- Working with the following AWS services: Lambda, DynamoDB, DynamoDB Event Stream, API Gateway, S3, Event Bridge, CloudWatch, CloudFront, Step Functions
- Linux is one of the core operating systems used besides the AWS Lambda Runtime environment

Ci&CD Ecosystem:

- Make, GitHub Actions, Terraform, Terragrunt, Docker, Linux
- Programming Stack:
- Backend: Python, Boto3, Pydantic,
- Frontend: JavaScript, TypeScript, React, NPM
- Third Party Tooling (API's and tools):
- Cisco vManage, Fortinet, ICMS (Industrial Control and Monitoring Systems), PaloAlto, OKTA OIDC,

### **MASSMUTUAL** – BUCHAREST, ROMANIA

#### **CLOUD ENGINEER (DEVOPS ENGINEER) - MIDDLE** – 25/05/2023 – 31/05/2025

Finalizing my substitute Technical Lead Position I was promoted from the previous Junior Cloud DevOps Engineer position.

Within this position I have worked in the following products:

- CD GitOps tooling adoption across multiple organization departments (worked on adopting ArgoCD across the organization)
- ArgoCD Deployment pipeline (GitHub Actions pipeline that deploys ArgoCD in a Kubernetes environment)
- Web Application development (Web portal used within the organization to create GitHub Apps - which are similar to a service account).
- Developed with Python Flask
- Integrated with Vault (Automatically stores app credentials)
- Features a database for audit of operations conducted through it
- Besides the application I have worked extensively on providing required and accurate documentation for both products I have worked on
- Created Deployment pattern for the web portal (Containerized with docker and deployed in an EKS cluster)
- Developed Kubernetes Job container used to read and manage secret resources from different namespaces. The programming language used was Python
- Developed HelmCharts Lifecycle platform (GitHub Actions that builds, tests, and pushes helm charts to artifactory)

I was offered the opportunity to take a DevOps Technical Lead position for a predefined time frame (while my manager was on vacation).

**Responsibilities:**

- Team coordination
- Sprint planning
- Sprint overview
- Backlog planning
- Quarterly product review
- Discussions with stakeholders and clients
- Review and develop Architectural Patterns

The Business Unit that I've led was focused on CI/CD and DevOps tooling mainly centered around this tech stack:

- Github Actions
- AWS:
  - IAM
  - EKS
  - Containers
  - CI/CD
  - ArgoCD
  - GitOps

**JUNIOR CLOUD ENGINEER (JUNIOR DEVOPS ENGINEER)** – 21/06/2022 – 04/05/2023

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Junior DevOps Engineer position in the Cloud CI&CD Infrastructure Development Unit within MassMutual Romania. The role incorporates **Agile methodology**'s working principles.

**Additional responsibilities:**

- Product release planning and integration
- Vulnerability assessment and mitigation
- Process Diagrams Creation

**Common workflows:**

- Cloud infrastructure (IAC - infrastructure as code) procurement, configuration and delivery according to stakeholder's requirements
- Container image lifecycle management (Container image creation and configuration with regard to lifecycle and intended use)
- Shell scripting (Unix, PowerShell)
- Writing documentation for the developed product solutions (Documentation)
- CI/CD focus on developed products (Continuous Integration/Continuous Development)

**Technology topics involved:**

- AWS (Amazon Web Services)
- Terraform
- MICROSERVICES
- Terraform Cloud
- CI/CD Pipeline integration
- Jenkins
- Github actions
- Docker
- Kubernetes cluster administration
- Kubernetes cluster configuration and development
- System engineering
- Networking
- Containerization
- Linux
- Microsoft Server
- Python scripting
- Git

- Container image lifecycle
- Vulnerability remediation
- ArgoCD

## MASSMUTUAL ROMANIA – BUCHAREST, ROMANIA

Website <https://www.massmutual.com/>

### **INTERN CLOUD ENGINEER (DEVOPS INTERNSHIP) – 20/03/2022 – 20/06/2022**

Full time internship program focused on developing and improving skills needed in the cloud engineering (DevOps engineering) branch of the IT industry. During this internship I received full training based on both theoretical and practical assignments that greatly improved my understanding of the operational and automation processes that are employed in the cloud.

The technologies used throughout the internship were:

- **Amazon Web Services (AWS)**, Cloud used for deploying IT solutions in the cloud as infrastructure and resources.
- **Terraform (HCL - HashiCorp Configuration Language)**, used for automating the deploying processes in the cloud, also known as infrastructure as a code. This is the technology I enjoyed using the most. Personal project can be reviewed at: <https://github.com/VladAdochitei/aws-terraform-wordpress>
- **Linux/Shell/Bash/Powershell** scripting, used to provision and configure all the necessary software packages on the servers that were deployed in the cloud. Script used for configuring a web server can be reviewed at: <https://github.com/VladAdochitei/aws-terraform-wordpress/blob/main/init.tpl>
- **Python** programming language, used to automate tasks such as automating the reading through the files in a directory and performing different actions on those files. Personal project can be reviewed at: <https://github.com/VladAdochitei/python-password-generator>
- **Docker** container engine, used for building up a level of familiarity with containerization technologies and also employing the resulted knowledge in a practical assignment. The project can be reviewed at: <https://github.com/VladAdochitei/docker-container-flask>
- **Kubernetes (K8S)** orchestration tool, used to building up a level of familiarity with the Kubernetes system.

## IPSOS - IIS HELPDESK, GLOBAL DEPARTMENT – BUCHAREST, ROMANIA

Website <https://www.ipsos.com/en>

### **JUNIOR WEB PROGRAMMER – 11/10/2021 – 10/03/2022**

Job position within a multinational team that develops online survey websites for our clients. The programming languages used are HTML/CSS, JavaScript, LUA. The main purpose of the surveys is to collect data that is exported to the Data Processing team.

Key words: Data collection, JQuery, Javascript, HTML, CSS, LUA.

- Survey implementation using specialized programing language
- Performing quality assurance of scripts and data
- Creation of customized HTML/CSS designs to suit our clients' needs
- Audio, video and image integration for online and/or mobile surveys
- Logical thinking, attention to detail and ability to work towards deadlines;
- Java Script, HTML/CSS knowledge
- Team player
- Multinational team

## ROMATSA R.A. – BUCUREŞTI, ROMANIA

Website <https://www.romatsa.ro/index.php>

### **INTERN STUDENT, ROUTE ACTIVITIES MANAGEMENT DEPARTMENT – 27/06/2021 – 16/09/2021**

Activities undertaken:

- Concept of operations elaboration (RMZ&TMZ ConOps implemented in FIR Bucharest)
- Airspace design (planning)
- Partial translation of ICAO documentation of interest,
- Performing the tasks assigned by the coordinators,
- Report elaboration (Word,Excel,PowerPoint).

## S.C. PETROPOWER S.R.L. (PETROM) – FOCŞANI, ROMANIA

Website <https://www.petrom.ro/ro-ro>

Activities undertaken:

- Customer support,
- Cash register operation,
- Stock reception and management,
- Issue invoices.

 **ROMAERO S.A.** – BUCUREŞTI, ROMANIA

Website <https://romaero.com/>

**PRACTITIONER STUDENT** – 22/07/2019 – 22/08/2019

Viewing and participating in many practical activities in different branches of aerospace engineering:

- Aircraft maintenance,
- Aircraft repair,
- Manufacture of parts,
- Aviation components assembling,
- Component design (Catia, AutoCAD),
- Requisition operations.

**EDUCATION AND TRAINING**

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10/10/2022 – 11/06/2024 Bucharest, Romania

**MASTER'S DEGREE (FACULTY OF ENGINEERING IN FOREIGN LANGUAGES - SOFTWARE ENGINEERING MAJOR)** Politehnica University of Bucharest

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Major topics (In order from first to last year):

- Programming Paradigms (Java)
- Oracle Databases
- Oracle Databases Security
- Agent-Oriented Software Engineering (Java)
- Machine Learning and Algorithms (Python)
- Distributed Computing (Blockchain, Specialized protocols, Distributed Industrial Applications)
- Software Methodologies (UML Design Language)
- Software Testing (Unit Tests, Integration Tests, Penetration Tests, Python testing)
- Software Architectures (UML Diagramming, Software Design Patterns, Architectural Patterns, Architectural Styles)

Speciality (Also thesis):

- Software Architectures: Architectural Patterns (Focused around distributed applications)
- Distributed Computing: Distributed Industrial Applications (Distributed platform to monitor weather/gas/atmospheric parameters)

**Field of study** Computer and Information Technology

14/09/2018 – 07/07/2022 Bucureşti, Romania

**BACHELOR'S DEGREE (AEROSPACE ENGINEERING - AIR NAVIGATION MAJOR)** Politehnica University of Bucharest, Faculty of Aerospace Engineering

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Air Navigation section, program of studies undertaken in English.

BSc Air Navigation Engineering

Programming languages used:

- Matlab & Simulink
- Java
- XML
- AutoCAD
- XFLR5 (flight performance analysis tool)
- Aviation Data Buses Communication Protocols (CRC Algorithm)

Majors: (In order from first to last year)

- Interchange of Aeronautical Information (Data) [Aviation data buses / Aviation databases]
- Geomatics (GIS & GPS, GNSS, GLONASS)
- Aeronautical Charts (Aviation specific navigation charts)
- Human Factors (Swiss Cheese Model accident & incident analysis)
- Statistics and probability
- Thermodynamics & Mechanics & Atmospheric Physics & Meteorology & Mechanic Physics & Electrical Physics.

- Air Navigation Procedures
- Aviation regulation and legislation (Summary: Just Culture)
- Aviation safety analysis
- Radio navigation Systems
- Surveillance Systems

**Address** Spl. Independenței 313, 060042, București, Romania |

**Website** <http://www.aero.pub.ro/wordpress/index.php/ro/contact/> | **Field of study** Aerospace Engineering | **Final grade** 8.29 |

**Thesis** 8.30

14/09/2014 – 24/05/2018 Focșani, Romania

**HIGH-SCHOOL GRADUATE (MATHEMATICS AND COMPUTER SCIENCE MAJOR)** Unirea National College

- Mathematics-Computer science
- Baccalaureate grade- 9.06

**Address** Strada Cezar Bolliac 13-15, 620167, Focșani, Romania | **Website** <http://cnu.lufo.ro/>

## ● **PROJECTS**

05/2021 – 09/2021

**Radio and Transponder mandatory zones implementation in FIR Bucharest(Flight Information Region) (RMZ&TMZ)**

Assigned Project during my internship at ROMATSA S.A.

Tasks:

- Concept of operations(ConOps) elaboration in collaboration with ROMATSA R.A.
- Airspace Design
- Documentation elaboration
- Assuring compliance with EASA, EUROCONTROL and ICAO Legislation and Regulation

Target Regions:

- CTR LROP (Control zone assigned to Otopeni Airport)
- CTR LRBC (Control zone assigned to Bacău Airport)
- CTR LRCV (Control zone assigned to Craiova Airport)
- CTR LRIA (Control zone assigned to Iași Airport)
- CTR LROD (Control zone assigned to Oradea Airport)
- CTR LRSM&LRBM (Control zone assigned to Satu Mare & Baia Mare Airports)
- CTR LRSV (Control zone assigned to Suceava Airport)
- CTR LRTC (Control zone assigned to Tulcea Airport)

Project description:

The Radio Mandatory and Transponder Mandatory zones are embedded in FIR București on strategic regions of the Class G airspace (uncontrolled) subject to high density of flights. The purpose of said zones is to maintain and raise the safety level and efficiency of operations conducted within that region by raising the conspicuity of aircrafts and relieving the workload assigned to air traffic controllers.

A derived effect of the implementation of these zones is that the possibility of flight infringement is drastically diminished, therefore, the risk of accidents and incidents is also diminished.

## ● **SKILLS**

**Cloud engineering**

AWS cloud practitioner | Terraform (HCL) | Docker & Kubernetes | Docker CLI

**Programming**

Python | Git | MySQL | SQL | LUA | XML | JavaScript | HTML | CSS

**OS/Shell scripting**

Linux (terminal commands, Bash/Shell) | Basic experience with PowerShell

**Server configuration**

Windows/Windows server | Linux CentOS | Linux Ubuntu Server/Desktop

## Additional skills

XFLR5 (analysis tool for airfoils wings and planes operating at low Reynolds Numbers) | 3D modelling in Blender

## PUBLICATIONS

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2022

### Personal projects

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## VOLUNTEERING

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21/09/2018 – 10/05/2019 Bucharest  
**IT department member, EUROAVIA**

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Performing tasks related to the IT field of activity of the association.

Link <https://euroavia-bucuresti.ro/>

09/2018 – 10/2018 Bucharest  
**NATO military medical emergency exercise**

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I played the role of an injured civilian during this exercise.  
The exercise consisted of a urban terrorist attack simulation. The main purpose of it was to train nato medics and Romanian emergency service response.  
Note that I participated as a volunteer only once.

Link <https://www.nato.int/>

## LANGUAGE SKILLS

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Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C2	C2	C2
<b>FRENCH</b>	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## COMMUNICATION AND INTERPERSONAL SKILLS

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### Competențe de comunicare și interpersonale

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- Punctuality
- Adaptability
- Analytical thinking
- Good communication in both Romanian and English
- good collaboration with colleagues at the workplace
- good collaboration within a team
- Complete professional competence in English
- Experience in a multinational and multicultural work environment