

SIMONEL-OLIMPIU DAVID

DevOps Engineer passionate about software infrastructure and space technology. Always eager to explore and innovate, I thrive on challenges that push my technical and leadership skills.

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WORK EXPERIENCE

Mid DevOps Engineer

COERA BC SRL

Jan 2026 - Present Romania

Designing and operating AWS and Kubernetes infrastructure with CI/CD automation and infrastructure-as-code. Kubernetes AWS Terraform

CI/CD

Advanced Junior DevOps Engineer

COERA BC SRL

July 2025 - Jan 2026 Romania

Improved cloud reliability through Terraform-based automation and production monitoring. Terraform AWS Monitoring

Junior DevOps Engineer

COERA BC SRL

June 2024 - July 2025 Romania

Built Kubernetes platforms and centralized monitoring to improve deployment efficiency. Kubernetes ArgoCD Observability

Trainee DevOps Engineer

COERA BC SRL

Oct 2022 - June 2024 Romania

Supported cloud automation and CI/CD using Terraform, Ansible, and Jenkins. Terraform Ansible Jenkins

DevOps Intern

COERA BC SRL

July 2022 - Aug 2022 Romania

Introduced to cloud and DevOps practices through Azure-based deployments. Azure Docker

EO Platform Product Manager

AIM-SPACE

Nov 2025 - Present Romania

Leading an Earth Observation platform by aligning satellite data capabilities with product strategy. Earth Observation Product Strategy

Stakeholder Management

Software Engineer

AIM-SPACE

March 2023 - Nov 2025 Romania

Developed satellite data processing and geospatial analysis solutions. Remote Sensing Geospatial Data Data Processing

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Faculty of Mathematics and Computer Science,
Babeş-Bolyai University

2021 - 2024 Cluj-Napoca, Romania

MASTER'S IN DISTRIBUTED SYSTEMS IN INTERNET

Faculty of Mathematics and Computer Science,
Babeş-Bolyai University

2024 - Ongoing Cluj-Napoca, Romania

SKILLS

Technical Skills

- Cloud Computing: AWS Cloud, Azure Cloud, Kubernetes, Terraform, ArgoCD, BitBucket Pipelines.
- Software Development: Java, C/C++, Python, Linux, Bash Scripting, Jenkins.
- Monitoring: Grafana, Prometheus, Thanos, OpenSearch, Logstash, FluentBit, FileBeat.
- Web Technologies: React, WordPress, CPANEL.

Soft Skills

- Leadership, Teamwork, Communication, Research, Creativity.
- Problem-solving, Decision-making, Strategic Thinking, Adaptability.

LANGUAGES

Romanian	Native
English	C1
German	Intermediate

OTHER INTERESTS

Machine Learning | Cybersecurity | Space Exploration | Satellites | Astronomy | Video Games | Open-Source Projects | Music | Violin | Guitar | Contemporan Dances.

VOLUNTEERING

Business Development Director

ROSPIN

📅 Apr 2026 - Present

📍 Romania

- Leading ROSPIN's growth strategy for its next stage of development.
- Overseeing partnerships and keeping collaborations aligned and well structured.

Business Development

Strategy

Partnerships

Satellite Data Processing Masterclass Project Manager

ROSPIN

📅 Oct 2024 - Present

📍 Cluj-Napoca, Romania

- Built and managed a satellite data course with Babeş-Bolyai University.
- Taught key concepts and guided teams in applied satellite data projects.

Project Management

Satellite Data

Teaching

PR Coordinator

Romanian Science Festival

📅 Apr 2024 - Dec 2024

📍 Cluj-Napoca, Romania

- Led local promotion, increasing visibility and attendance.
- Built media and influencer partnerships for wider outreach.
- Coordinated activities for tech, space, and family audiences.

Event Planning

Public Relations

Community Engagement

Aerospace Mentor

Romanian Science Festival

📅 Apr 2024 - Dec 2024

📍 Cluj-Napoca, Romania

- Led hands-on space activities for children, including rockets and GPS demos.
- Explained space concepts through simple, practical experiments.

Mentorship

STEM Education

Aerospace

IT Manager

ROSPIN

📅 Sept 2022 - Present

📍 Romania

- Led website development and platform improvements.
- Guided junior developers in WordPress, CPanel, and React.

WordPress

CPanel

React

Community Manager

ROSPIN

📅 Sept 2022 - Jan 2024

📍 Romania

- Organized large-scale space education events across 11 cities in Romania, facilitating engagement between the scientific community and space enthusiasts.
- Managed diverse volunteer teams, coordinating outreach programs and optimizing logistics to ensure the successful execution of each event.

Community Management

Event Planning

Leadership

PROJECTS

EOsec – Defense-X Hackathon Winner

AIM-SPACE & ROSPIN

📅 Dec 2025

📍 Sibiu, Romania

Co-developed a satellite-based monitoring platform using multispectral and radar imagery to detect critical infrastructure and border changes, supporting defense and security decision-making.

Earth Observation

Geospatial Analysis

Defense

Change Detection

ESA Datalabs Ariel Hackathon 2025

European Space Agency

📅 Jan 2025

📍 Madrid, Spain

Developed a machine learning solution to analyze instrument noise and improve signal clarity for the ESA Ariel exoplanet mission.

Machine Learning

Signal Processing

Space Data

Erasmus+ "Be Unique"

European Union

📅 Apr 2019

📍 Antalya, Turkey

Participated in an international program promoting social inclusion and empowerment of people with disabilities through community-driven initiatives.

Social Impact

Inclusion

Community Engagement

Erasmus+ KA21 "Synergy for Renewal"

European Union

📅 Aug 2018

📍 Vilnius, Lithuania

Engaged in a multicultural collaboration focused on community renewal, sustainability, and cross-border knowledge exchange.

Sustainability

Cultural Exchange

Collaboration

VOLUNTEERING

Volunteer - Projects Department

Asociația Studenților Fizicieni UBB

📅 Oct 2022 - Sep 2023

📍 Cluj-Napoca, Romania

- Assisted in the planning and execution of STEM-related events and workshops, ensuring high educational value and participant engagement.

Event Organization

STEM Promotion

Volunteer

Euroavia Cluj-Napoca

📅 Oct 2022 - Sep 2023

📍 Cluj-Napoca, Romania

- Contributed to organizing aerospace networking events, workshops, and industry-focused discussions, fostering collaboration among engineering students and professionals.

Aerospace

Networking

HR Volunteer

HERMES Society

📅 Oct 2021 - Sep 2023

📍 Romania

- Assisted in the recruitment process, ensuring the selection of highly motivated candidates, and supported the coordination of the Hermes Hackathon event.

Human Resources

Recruitment

Backstage Volunteer

UNTOLD Festival

📅 Aug 2022

📍 Cluj-Napoca, Romania

- Provided logistical and operational support backstage, ensuring smooth coordination of artist schedules, equipment setup, and overall event execution.

Event Logistics

Artist Relations

ROSPIN School Project Manager

ROSPIN

📅 Jan 2022 - Sept 2022

📍 Romania

- Led the inaugural edition of the ROSPIN School project, successfully managing 300 students and designing a curriculum focused on space science and technology.

Project Management

STEM Education

Cluj-Napoca Ambassador

ROSPIN

📅 Oct 2021 - Sept 2022

📍 Cluj-Napoca, Romania

- Built and led a dynamic community of space enthusiasts, organizing regular networking events and fostering engagement with industry experts.

Community Leadership

Networking

PUBLICATIONS

ROSPIN Satellite Data Processing Masterclass

5th SSEA Symposium

📅 Apr 2026

📍 Munich, Germany

- Presented a national EO education program combining project-based learning and real-world applications.

STEM Education

Satellite Data

Project-Based Learning

Federated Learning for On-Orbit EO Analytics in Military Satellite Constellations

5th EDT Conference

📅 Mar 2026

📍 Sibiu, Romania

- Proposed a federated learning architecture for low-latency, resilient EO analytics in satellite constellations.

Federated Learning

Earth Observation

Space Systems

Top Cities in Romania by Urban Heat Island Cold Spots (2018–2022)

ROSPIN, AIM-SPACE

📅 Nov 2024

📍 Online

- Analyzed urban cooling patterns, highlighting the role of green spaces and reflective infrastructure.

Climate

GIS

Data Analysis

Top Cities in Romania by Urban Heat Island Hotspots (2018–2022)

ROSPIN, AIM-SPACE

📅 Nov 2024

📍 Online

- Identified high-risk heat areas and proposed data-driven urban mitigation strategies.

Climate

GIS

Visualization

Wondering for Freedom

Independent Project

📅 Apr 2021

📍 Online

- Developed a game inspired by John Stuart Mill's *On Liberty*, exploring freedom through gameplay.

Game Dev

Philosophy