

Sergiu VLAD

Senior Software Engineer

DevOps · Cloud Infrastructure · Machine Learning · Automotive

PERSONAL INFORMATION

Date of birth: 10 September 1990

Nationality: Romanian

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ABOUT ME

Senior Software Engineer (Python) with over 15 years of experience across backend and frontend development. In recent years I have focused on DevOps and cloud infrastructure — infrastructure as code, CI/CD automation and large-scale data platforms on Azure and AWS — alongside applied machine learning and LLM-based systems. I have a deep passion for reverse engineering.

WORK EXPERIENCE

2024 – 2026

Senior Software Engineer with DevOps

GlobalLogic – Mercedes-Benz AG — Remote / Romania

- Developed and maintained internal Mercedes-Benz products related to their enterprise Data Lake (eXtollo) on Azure cloud.
- Part of the team responsible for Azure resources related to data storage and access management.
- Worked on a custom-built solution used together with Pulumi to orchestrate cloud processes and provision resources consumed by internal Mercedes-Benz clients.
- Key achievement: enabled internal Mercedes-Benz clients to migrate terabyte-scale datasets in a fully automated way between the two Data Lake generations (eXtollo → neXtollo).
- Automated build, test and deployment workflows with GitHub Actions and Azure DevOps pipelines; used AI-assisted development tooling (Claude Code) to accelerate delivery.

Technologies: Azure, Azure DevOps (pipelines), GitHub Actions, Azure Data Lake Storage, Databricks, Python, Pulumi IaC, FastAPI, Claude Code, TDD, CI/CD pipelines, Docker

2023 – 2024

Senior Software Engineer with MLOps & DevOps

BankInfoSecurity – Information Security Media Group (ISMG) — Remote / USA

- Designed, configured and maintained internal applications leveraging the LangChain framework for Large Language Models (LLMs), enabling efficient ingestion of large datasets by converting them into embedded documents.
- Provisioned and maintained the AWS infrastructure for the ML platform using Terraform (infrastructure as code); containerized workloads with Docker and automated deployments through CI/CD pipelines.
- Integrated external AI models (OpenAI GPT), enabling stakeholders to effectively query the stored data; fine-tuned local machine learning models on company-specific content to support content creators' workflows.
- Developed and optimized dataset processes for data modeling, mining and production; troubleshoot complex data and analytics issues within the ETL pipeline.

Technologies: AWS, Terraform, Python (polars, pandas, h2o wave, meltano, dagster), LangChain, OpenAI APIs, MySQL, CockroachDB, Docker, Linux architecture setup, bash scripting, CI/CD, TDD

2018 – 2023

Senior Full-stack Developer

termsfeed.com – Legalcom Group — Remote

- Developed and implemented the Legalcom Group websites (termsfeed.com, privacypolicies.com, freeprivacypolicies.com) with custom-built backend and frontend solutions.
- Backend in Python (Flask + SQLAlchemy); frontend in Vue.js and TypeScript, with Angular for side projects.
- Integrated payment portals (Braintree, Epoch, CCBill, PayPal); worked with SQL and NoSQL databases and Firebase.

Technologies: *Python (Flask), Vue.js 2, Sass, vanilla JavaScript, TypeScript, bash scripting, Docker, MariaDB, Cypress.js testing, REST endpoints, CI/CD, TDD*

2018 – 2019

Senior Frontend Developer

augnet.co.uk – Augnet UK — Remote / UK

- Created the frontend application for Augnet UK with Vue.js (Nuxt), delivering a user-friendly, performant, secure and scalable product.

Technologies: *Vue.js 2, Sass, vanilla JavaScript, REST endpoints, TDD*

October 2013 – present

Senior Full-stack Developer (Freelancer)

VAR24 INTERNATIONAL SRL — Oradea, Romania

- Contributed to the digital presence of several prestigious organizations: European Geothermal Energy Council, Atlantic Treaty Association (ATA), Young European Research Universities, Biopama, European Network of Living Labs (ENoLL).
- Designed and developed websites with custom WordPress themes and plugins, focusing on user-centric interfaces, performance, security and scalable architecture.
- Engaged in Web3 and DeFi projects: blockchain technology, smart contract development and decentralized financial systems.

Technologies: *PHP (Laravel, WordPress, vanilla), CSS, JavaScript, TypeScript, custom WordPress plugins & themes, Linux architecture setup, bash scripting, CI/CD, TDD, Plesk VPS configuration, Web3*

September 2012 – February 2013

Middle Backend Developer

BMR Soft SRL — Cluj-Napoca, Romania

- Developed modules and user interfaces for Avanticart, a custom e-commerce platform; conducted code reviews and collaborated in an AGILE team.

Technologies: *PHP (custom OOP framework – Avanticart), vanilla JavaScript, CSS, Adobe Photoshop, custom modules and client themes*

January 2010 – July 2010

Junior Backend & Frontend Developer

Mediatic — Cluj-Napoca, Romania

- Built web applications and web scrapers; gained practical experience with PHP, HTML, CSS and Python for web scraping.

Technologies: *PHP (CodeIgniter), Python, jQuery, CSS, Adobe Photoshop*

EDUCATION AND TRAINING

2013

Bachelor's Degree (Diplomă de Licență) – Computer Science, qualification: Programmer Analyst (Analist Programator)

University of Oradea, Faculty of Sciences — Oradea, România

- Field of study: Informatics (profil Informatică). Coursework covering programming, algorithms and data structures, databases and software engineering.

LANGUAGE SKILLS

Mother tongue: Romanian (C2)

English: C1 (listening, reading, spoken interaction, spoken production, writing)

German: A1 (beginner)

DIGITAL SKILLS

- Programming: Python (15+ yrs incl. FastAPI, Flask), PHP (15+ yrs), JavaScript/TypeScript (Vue.js, React, Angular), bash scripting (10+ yrs)
- DevOps & Cloud: Azure, AWS, Google Cloud (5+ yrs); infrastructure as code with Pulumi & Terraform; CI/CD pipelines (GitHub Actions, Azure DevOps); Docker; Databricks; AI-assisted development (Claude Code)
- Machine Learning & AI: applied ML/AI (LLMs, LangChain, OpenAI APIs, model fine-tuning)
- Databases: PostgreSQL, MySQL/MariaDB, CockroachDB, NoSQL, Firebase
- Operating systems: Linux (10+ yrs), server architecture setup, Plesk
- Practices: TDD, AGILE, code review, reverse engineering