



Elena Udrescu

ID: 480798

Work permit: Romanian

Date of birth: 03/10/1996

Place of birth: Rosiorii De Vede, Teleorman, Romania

Nationality: Romanian

Gender: Female

CONTACT

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ABOUT ME

I am a **Technology Executive and Chapter Lead in Software Engineering** with a strong background in Software Architecture and Engineering Leadership within the Insurance and Enterprise sectors, currently driving technical excellence and team growth at **Nationale-Nederlanden(NN)**. Proven track record of **leading large-scale engineering organizations (40+ engineers)**, defining technology strategy, and delivering business-critical systems. Expert in aligning technical implementation with enterprise architecture principles and driving digital transformation through **Cloud-native adoption, Microservices, and AI integration**. Adept at bridging the gap between complex technical requirements and strategic business goals in highly regulated environments.

WORK EXPERIENCE

Nationale Nederlanden Bucharest, Romania

Business or Sector Financial and insurance activities

Chapter Lead - Software Engineering

01/09/2023 – Current

Technical & Architectural Leadership

- **Strategic Direction:** Provide strategic direction and **architectural governance for a division of 40+ engineers across multidisciplinary stacks** (.NET, Java, React), directly contributing to the delivery of Insurance technology solutions.
- **Strategic Initiatives (JDK Migration): Orchestrated the company-wide migration from Oracle JDK to OpenJDK**, technically coordinating the roadmap and execution to eliminate licensing risks while ensuring seamless compatibility for critical enterprise systems.
- **Modernization & Cloud:** Lead major modernization initiatives, transitioning legacy systems to cloud-native microservices architectures, ensuring long-term sustainability and system resilience.
- **Innovation & Awards: Winner of the International Company Hackathon, leading a multidisciplinary team in designing and implementing award-winning technical solutions under competitive constraints.**
- **Chapter Leadership & People Management:** Manage the full people cycle (recruitment, performance reviews, compensation, and career progression) for the engineering chapter, while acting as a primary mentor to foster professional growth and technical excellence.
- **Strategy Alignment:** Ensure strict alignment between technical implementation and enterprise architecture principles, delivering scalable, secure, and business-oriented software.
- **Operational Excellence:** Drive consistency in engineering standards and best practices, implementing effective technology governance models and clear career paths for technical talent.
- **Stakeholder Collaboration:** Act as the primary technical partner for Product Owners and Senior Stakeholders, participating in high-level discussions regarding risk management, priorities, and technical direction.

Orange Business Services Bucharest, Romania

Software Technical Lead

01/01/2020 – 01/09/2023

Technical & Architectural Leadership:

- **Innovation Leadership:** Acted as Tech Lead for the Innovation Team, orchestrating the development of software robots (RPA) that successfully reduced manual operational workload by 80%.
- **Dolphin Project (Tech Lead):** Served as the Technical Lead for the company's primary corporate incident management platform, focusing

on optimizing response times and system reliability for critical interventions.

- **Flexo Project:** Architected and developed the Flexo application, a company-wide platform implemented during the pandemic to manage organized office returns via desk-booking systems and advanced capacity metrics.
- **DTT Application:** Served as Lead Developer for DTT, a mission-critical tool for operational teams to manage and optimize daily workflows.
- **NSSX (AI Alarm Management):** Engineered an AI-driven system for infrastructure alarm synthesis and integration, enabling automated resolution of complex system incidents.
- **Public Health Solutions:** Developed a pandemic-era application for the public health system that automated patient file generation via ID scanning, significantly accelerating triage processes.
- **Technical Stack:** Java (Spring, Javalin), .NET Core, Vue JS, PostgreSQL, Kafka, RabbitMQ, and Kubernetes on OpenShift Cloud.

Auchan Retail Bucharest, Romania

Senior Software Developer

01/01/2018 – 01/01/2020

Technical Leadership:

- **Data-Centric Architecture:** Engineered secure and scalable data handling flows using Java and Oracle Database, managing complex data environments.
- **Database Expertise:** Conducted advanced reporting and data analysis using SQL and PL/SQL on Oracle Databases, supporting critical business decisions.
- **DevOps & Containerization:** Utilized Docker and Kubernetes to foster agile development pipelines.
- **Process Automation:** Streamlined operational processes through UiPath automation and ReFramework implementation.

Cumulus Architecture Bucharest, Romania

Software developer

01/05/2018 – 01/12/2018

- **Security & Data Protection:** Vigilantly ensured data security and network access, implementing best practices to protect against breaches—a critical mindset for risk-aware environments.
- **Automation & Innovation:** Spearheaded the development of web applications to automate architectural projects, driving operational efficiency.
- **Strategic Alignment:** Acted in strict alignment with user needs and system functionality, contributing to organizational policy processes.

Teleperformance Bucharest, Romania

System Engineer

01/01/2016 – 01/01/2018

- **Infrastructure & Virtualization:** Managed virtual environments (VMware, Virtual Box) and optimized resource utilization, providing a strong foundation in infrastructure management.
- **Network & Security:** Applied solid knowledge of TCP/IP protocols and OSI layers for effective network design and troubleshooting.
- **System Monitoring:** Deployed monitoring systems to ensure high availability and performance of IT services.

Ubisoft Bucharest, Romania

Blockchain developer

05/01/2015 – 01/01/2016

Architecture & Core Development

- **Designed and implemented** decentralized ledger protocols to ensure high-performance data integrity and network consensus.
- **Developed and maintained** custom blockchain nodes and integrated specialized APIs to bridge the gap between legacy systems and Web3 environments.
- **Engineered** cross-chain bridges and interoperability solutions to facilitate seamless asset transfers across multiple networks (e.g., Ethereum, Polygon, Solana).
- **Architected** back-end infrastructure using **Go** and **C++** to support high-throughput transaction processing.

Smart Contract & dApp Development

- **Authored and deployed** secure, gas-optimized smart contracts in **Solidity** or **Rust** for DeFi protocols and NFT marketplaces.



- **Developed** decentralized front-end interfaces using **React.js** and **Web3.js/Ethers.js**, improving user engagement by streamlining wallet connectivity.
- **Automated** financial workflows by building self-executing contracts for automated market makers (AMMs) and liquidity pools.
- **Integrated** Oracles (e.g., Chainlink) to bring real-world data on-chain safely and accurately.

Security, Testing & Optimization

- **Performed comprehensive audits** of smart contracts to identify and mitigate vulnerabilities like reentrancy attacks, integer overflows, and front-running.
- **Collaborated** with external security firms for formal verification and third-party code reviews prior to mainnet deployment.
- **Utilized** development frameworks like **Hardhat**, **Truffle**, and **Foundry** to build robust test suites with 95%+ code coverage.

PUBLICATIONS

2025

"Ghidul tău prin lumea INTELIGENȚEI ARTIFICIALE"

A strategic guide demystifying AI complexities for professionals, focusing on practical adoption strategies, ethical implications, and bridging the gap between technical capabilities and business value creation.

Elena Udrescu, Alexandru Udrescu, 2025, Bucharest

Authors Elena Udrescu, Alexandru Udrescu | **Publisher** Booksprint

Link <https://www.booksprint.ro/product-page/învață-cum-funcționează-ai-ul>

CERTIFICATIONS

Prosci, 03/02/2025

Prosci® Leading Your Team Through Change - Delivered by Silfra

This accreditation validates my ability to lead teams through organizational transitions using the research-based Prosci® methodology. I am equipped to manage the "people side" of change by applying the ADKAR® Model to mitigate resistance and drive employee adoption. This certification confirms my proficiency in coaching direct reports through change, communicating effectively with stakeholders, and ensuring project ROI through high utilization and proficiency.

Mode of learning: Work based

Link https://www.credly.com/badges/3fe45aaf-cd48-488d-a14c-2cd7cd7dd816/linkedin_profile

Simplilearn, 06/05/2024

Artificial Intelligence Beginners Guide: What is AI?

ID:6892006

I have completed the "Introduction to Artificial Intelligence" program through Simplilearn's SkillUp initiative. This course provided a comprehensive overview of AI concepts, including the relationship between machine learning and deep learning. I gained foundational knowledge in supervised and unsupervised learning, the workflow of AI projects, and the ethical considerations of deploying automated systems. This certification demonstrates my commitment to understanding the technologies shaping the future of business and my ability to contribute to AI-driven initiatives.

Mode of learning: Work based

Link https://www.simplilearn.com/free-ai-program-skillup?utm_source=shared-certificate&utm_medium=shared-course&utm_campaign=shared-certificate-course-promotion

SAFe Agile Academy, 01/07/2024

SAFe 6 Agilist

ID 40211819-4659

This certification validates my expertise in the Scaled Agile Framework (SAFe®) and my ability to lead Lean-Agile transformations within a large-scale enterprise. I am proficient in the Seven Core Competencies of Business Agility, with a specific focus on leading Agile Release Trains (ARTs), executing PI Planning, and fostering a culture



of continuous delivery. By applying Lean-Agile principles, I help organizations improve productivity, employee engagement, and time-to-market while aligning strategy to execution.

Mode of learning: Work based

Uipath, 07/04/2020

RPA Developer Advanced

ID:255592549072832245

Mode of learning: Work based

EDUCATION AND TRAINING

01/10/2025 – CURRENT Alexandria, Romania

Bachelor's Degree Faculty of Sciences and Engineering

Website <https://www.valahia.ro/> | **Field of study** Sciences and Engineering | **Level in EQF** EQF level 6

RECOMMENDATIONS

Ionut Stancu Lead Senior Software Engineer

"Elena is extremely well organized and brings clarity and structure to everything she manages. What truly impressed me beyond her managerial skills was her strong technical expertise. She deeply understands processes, challenges assumptions, and often comes forward with well-thought-out solutions herself. Elena is the kind of leader who earns trust through both competence and action, making her a valuable asset to any team or organization."

Phone (+40) 749027922

Stefan Andrei Constantin Tech Lead | Full Stack Developer

"Elena is the greatest leader I had work with. Her technical skills are amazing and she is able to handle any challenge and multiple products in parallel. But what make her the greatest is that she is humble, always understandable with her colleagues, willing to help, protect her team as a true leader and continuously trying the best she can to help the company to thrive by proposing the smart and right solutions not the "follow market tech trends".

Therefore, anyone who needs a Leader, Elena will be your best asset."

Phone (+40) 728146715

Liviu Lupascu Java Software Developer-NN Romania

"This review is not paid for. :)"

As my manager she offered me with all I needed to get things done. And together we succeeded. I find this to be extremely rare.

There's nothing else one can ask from his/her manager. Having a clear vision leads to an accurate execution. I recommend her wholeheartedly."

Phone (+40) 765270977

Andrei Gutan Software Developer

"The best manager I could have ever had. A person who understands both your personal and professional needs. A manager who adapts to each individual and maximizes the potential of every person. Additionally, a technical leader who knows how to take initiative when no one else can."

Phone (+40) 799084985

Valentin Lubomir Badiu Azure Solution Architect

"I had the good fortune to work with Elena during the period when I was part of NN Romania. She is a knowledgeable IT professional having great insights on a wide range of technologies and also a resourceful Chapter Lead and Manager.

I was impressed with her professionalism and the way she was able to find solutions in a very short period of time working under pressure of delivery. I look forward to work with Elena in the future and would definitely recommend her."



Phone (+40) 723250535

Nicoleta Visan Human Business Partener-Iposo Askia Romania

"I have had the pleasure of working with Elena and I can say that she is one of the most dedicated and hardworking person I have met. Elena goes above and beyond in every task she takes, trying every time to deliver excellent results. Whether she is managing complex projects, collaborating with team members, or tackling day-to-day tasks, Elena approaches everything with the same level of focus and determination. She is not only reliable but also proactive in identifying opportunities for improvement and driving change. She is a committed team player who is always eager to offer support and share her expertise. I highly recommend Elena for any role or project. Her commitment and passion for her work make her a great addition to any team."

Phone (+40) 735509935

Link <https://www.linkedin.com/in/elena-udrescu-49511a183/details/recommendations/?detailScreenTabIndex=0>

Andreea Nicoleta Bordei Business Unit Manager- Arobs Romania

"Elena is a very self-driven person and the definition of ownership and excellence. I had the pleasure of collaborating with her on different projects, and I am most impressed by her capacity to rapidly overcome any challenges she encounters. She is true to her beliefs and a technology enthusiast. In Elena, I have seen promptness, a clear mind, and a lot of honesty and ethics in her work. I have a lot of respect for her as one of the few women in the tech domain. She is deeply dedicated to her work in a way I haven't seen in many. In a few words: Speedy Gonzales when it comes to finalizing tasks, dynamic, enthusiastic, empathetic, charismatic, and always striving for THE BEST."

Phone (+40) 726293911

Mihaela Ana-Maria Nelcu Data Developer - Raiffeisen Bank Romania

"I had the pleasure of working closely with Elena, and I must say she's an exceptional talent in the tech industry. With her deep understanding of Java and React.js, coupled with her strong management skills, Elena consistently delivered high-quality results. She excels in leading teams, managing projects efficiently, and driving innovation. Her dedication and professionalism make her an invaluable asset to any organization. I highly recommend Elena for any leadership role in software engineering."

Phone (+40) 763727184

Simona Iordache Software Engineer-Deutsche Bank

"I highly recommend Elena as a frontend developer with expertise in React. Elena consistently delivers high-quality frontend solutions, leveraging her deep understanding of React's core concepts and her passion for staying updated with the latest trends. She is a proactive team player with strong problem-solving skills and attention to detail. Elena's professionalism and collaborative nature make her an invaluable asset to any development team.

Overall, Elena's combination of technical expertise, continuous learning mindset, and collaborative spirit make her a standout team member."

Phone (+40) 744444968

Tudor Samoilescu Blockchain DevOps Engineer- Orange Romania

"I've worked with Elena for almost a year at Orange. During this time, her experience as a software developer was invaluable both for the team and for me personally. She was always willing to help us grow and learn new things. Her expertise helped us on several projects, where we needed more efficient solutions. I am thankful that we had the chance to work together and I would highly recommend her to any company."

Phone (+40) 740071070

Mihai Giurgeanu Senior Software Engineer

"Elena and I worked in the same team. She was a junior software developer when she first joined our team. I was very happy to work with her. She is very good in working with business users, she is eager to learn both, technology but also about the user's business so she can deliver the best solutions. She managed to fully overtake small projects, fulfilling all roles from business analyses, solution architecture, testing, to deployment in production and support. She is very enthusiastic, a great colleague and a joy to work with."



NETWORKS AND MEMBERSHIPS

05/12/2025 – CURRENT Bucharest

● Bridging Gaps-Industry Mentor (Business, Technology & AI)

At Bridging Gaps, I contribute as a mentor, helping founders and professionals clarify their strategy, understand the impact of technology and AI, and turn complex challenges into concrete, actionable steps.

Link <https://www.bridging-gaps.ro/our-mentors>

15/11/2022 – CURRENT Bucharest

● Women in Tech -Community Member

Active member of the Women in Tech community, supporting initiatives focused on diversity, inclusion, and professional growth in technology. Passionate about knowledge sharing, mentorship, and responsible innovation in software engineering and AI.

CONFERENCES AND SEMINARS

2025 Bucharest

● Bucharest Tech Week-Lead Stage

The Concept: This is a dedicated zone where 1,500+ tech leaders use AI-driven matchmaking apps to move "leads" from initial contact to partnership.

The Goal: To convert casual networking into concrete business opportunities during the networking breaks between summit sessions.

2025

● FoundAirs Summit - Domain Expert

Bucharest Tech Week / Founders Summit 2025 | Participant > *Bucharest, Romania | June 2025* Collaborated with industry leaders on the integration of **AI Agents** and **Bionic Technologies** into core business architectures.

- Explored **Product-Led Growth (PLG)** frameworks and scaling strategies alongside speakers from global tech giants (OpenAI, Google, IBM).
- Analyzed emerging trends in the "New Human Journey" theme, focusing on the synergy between human leadership and autonomous AI systems.

Bucharest

● DevTalks

DevTalks stands as a **pivotal force for change** within the global technology landscape. As the most anticipated expo-conference for developers and IT professionals in the region, we are committed to build a vibrant and inclusive dev community. With a robust agenda centred on the most critical and disruptive technologies, including **Artificial Intelligence, advanced software engineering, scalable cloud infrastructure, and big data analytics**, DevTalks provides a platform for high-value content and real conversation opportunities.

