



# Alexandru Udrescu

**Work permit:** Romanian


**Date of birth:** 28/04/1996

**Place of birth:** Bucharest


**Nationality:** Romanian

**Gender:** Male

## CONTACT

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## ABOUT ME

I am a **Chapter Lead Engineer** based in Romania, currently driving technical excellence and team growth at **ING Hubs Romania**. My professional identity is defined by a "player-coach" philosophy, where I maintain a **50/50 balance** between hands-on coding and organizational management.

### Technical Expertise

With a reliable foundation in **Java (Spring Boot)**, I specialize in building robust, scalable systems using **Cassandra, Kafka, JMS, and EMS**. My technical journey includes significant experience across the full stack, from **Vue JS and Angular** to infrastructure management with **Kubernetes, OpenShift, and AWS**. I am deeply involved in system design, debugging, and driving innovation within technical solutions.

### Leadership & Strategy

Beyond the code, I am a dedicated mentor and strategist. I have successfully served in roles as a **Feature Owner** and **Scrum Master**, where I coordinated large-scale features, managed cross-functional deliverables, and aligned team efforts with broader organizational goals.

### Academic Background

My technical career is underpinned by a **Master's in E-Business** and a **Bachelor's in Economic Informatics** from the **Bucharest University of Economic Studies**, providing me with a unique perspective on the intersection of management information systems and business strategy.

## WORK EXPERIENCE

 **ING Hubs Romania** Bucharest, Romania

### Chapter Lead Engineer

03/2024 – Current

#### Technical Orchestration & Ecosystem Management

- **SEPA Payment Ecosystem:** Currently serve as the technical coordinator for a high-scale software ecosystem dedicated to **online payments within the SEPA area**, ensuring high availability and compliance with European financial standards.
- **Core Technology Stack:** Actively participate in coding, debugging, and system design using **Java (Spring Boot framework), Cassandra, Kafka, JMS, and EMS**.
- **System Innovation:** Drive efficiency in technical solutions by managing the integration of complex messaging queues and distributed databases to handle real-time payment processing.

#### Strategic Management & People Leadership

- **Performance & Growth:** Conduct regular **1-on-1 meetings** to mentor team members, performing thorough performance reviews and providing the constructive feedback necessary for career progression.
- **Objective Alignment:** Set clear technical objectives that align team efforts with broader organizational goals, fostering a collaborative and inclusive culture that prioritizes collective success.
- **Incident Management Innovation:** Winner of the **2026 Hackathon** for developing an innovative pattern for incident problem-solving. This pattern optimized response times and streamlined the recovery process for critical software incidents.

 **Orange Services** Bucharest, Romania

## Senior Software Engineer

03/2022 – 03/2024

- **AI Integration:** Led the development of a system that collected massive streams of network alarms and utilized **Artificial Intelligence** to synthesize and prioritize them.
- **Ecosystem Orchestration:** Engineered the integration of these synthesized insights into all related peripheral systems, ensuring that critical issues were automatically routed for resolution.

### Technical Leadership & Feature Ownership

- **End-to-End Coordination:** Acted as the **Feature Owner** for high-impact initiatives, coordinating multiple developers and cross-functional teams to ensure seamless delivery.
- **Task Management:** Responsible for breaking down complex requirements into actionable tasks, assigning them to team members, and tracking progress through weekly reporting to stakeholders.
- **Strategic Design:** Participated in high-level architectural sessions to design and implement workflows that aligned with company-wide goals.
- **Mentorship:** Actively mentored junior and mid-level team members to maintain high code quality and a collaborative atmosphere.

### Advanced Technical Stack

- **Backend:** Developed high-performance services using **Java (90%)**, primarily leveraging the **Spring** and **Java** frameworks.
- **Frontend Contribution:** Built and maintained intuitive user interfaces using **Vue JS (10%)**.
- **Messaging & Data:** Managed complex data flows and inter-service communication using **Kafka**, **RabbitMQ**, and **PostgreSQL**.
- **Cloud Infrastructure:** Architected and deployed microservices within a **Kubernetes** environment on the **OpenShift Cloud**.
- **Documentation:** Authored comprehensive technical specifications and documentation to ensure system maintainability.

**IHS Markit** Bucharest, Romania

## Software Engineer

05/2021 – 03/2022

### Key Responsibilities:

- **Financial Workflow Engineering:** Engineered and implemented complex **financial and investing flows**, ensuring high precision and data integrity for large-scale investment operations.
- **Full-Stack Development:** Developed robust application features with a primary focus on backend logic (**80% Java with Spring**) and supporting frontend components (**20% Angular 11**).
- **Database Management:** Designed and optimized relational database schemas and queries using **SQL Server** to support high-frequency financial data processing.
- **Cloud Integration:** Leveraged **AWS Cloud** infrastructure for the deployment and management of scalable microservices within a secure financial environment.

### Technical Environment:

- **Backend:** Java, Spring Framework.
- **Frontend:** Angular 11.
- **Database:** Microsoft SQL Server.
- **Cloud:** Amazon Web Services (AWS).

**Questia Group** Bucharest, Romania

## Full Stack Developer

01/2018 – 05/2021

During my time at Questia Group, I served as a Full Stack Developer and Scrum Master, where I architected a comprehensive **surveys ecosystem dedicated to political questionnaires**. This role required a high degree of precision in both technical execution (Java, PHP, ReactJS) and Agile leadership to ensure the platform met the rigorous demands of political data analysis.

### Key Responsibilities & Leadership

- **Scrum Master Leadership:** Acted as the Scrum Master for the development team, overseeing the Agile workflow.
- **Agile Orchestration:** Managed and distributed tasks across the team to ensure consistent sprint velocity and project alignment.
- **Performance Analytics:** Generated and presented detailed performance reports to decision-makers to guide project strategy.
- **System Architecture:** Led the comprehensive design and implementation of a complex surveys ecosystem.



## Technical Execution

- **Backend Development:** Engineered robust server-side solutions using **Java** with **Jersey** and **Hibernate**, as well as **PHP Symfony**.
- **Frontend Engineering:** Developed dynamic and responsive user interfaces using **JavaScript**, **AngularJS**, and **ReactJS**.
- **Mobile Development:** Contributed to the ecosystem's mobile presence through **Android** development.
- **Cloud & DevOps:** Managed application infrastructure on **Google Cloud** and optimized delivery pipelines using **Gitlab CI/CD**, **Maven**, **Gulp**, and **Webpack**.

## EDUCATION AND TRAINING

2018 – 2020 Bucharest, Romania

● **Master's Degree** Bucharest University of Economic Studies

Field of study E-Business, Management Information Systems

2015 – 2018 Bucharest, Romania

● **Bachelor's Degree** Bucharest University of Economic Studies

Field of study Economic Informatics

## PUBLICATIONS

2025

### ● Învățã cum funcționeazã AI-ul

We are living through an unprecedented technological revolution, and artificial intelligence is no longer just a sci-fi concept, but a reality already shaping our lives. This book is your essential guide to understanding what AI is, how it works, and how it can transform your career, your business, and your worldview.

You will embark on a fascinating journey, from the earliest ideas of intelligent machines to current applications in medicine, education, business, and daily life, all the way to future scenarios that raise major ethical questions and challenges for humanity.

Written in a clear and engaging style, the book combines simplified technical explanations with concrete examples, case studies, and practical advice for leaders, entrepreneurs, and the curious alike. Whether you are an absolute beginner or already tech-savvy, you will find essential answers and the inspiration to use AI intelligently and responsibly.

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

**Link** <https://www.booksprint.ro/product-page/învățã-cum-funcționeazã-ai-ul>

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