



## Alexandru-Lucian Vîlcea

### WORK EXPERIENCE

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[ 10/2024 – current ] **Senior Software Engineer**

***Microsoft Romania – Azure Core***

**City:** Bucharest | **Country:** Romania

Technology stack:

- C#, .NET, React, Node.js, Copilot, Kusto, Azure services

Responsibilities:

- Involved in developing new features and providing maintenance to the resilience platform behind Azure virtual machines

[ 09/2022 – 09/2024 ] **Technical Lead**

***Eurofins GSC IT Romania***

**City:** Bucharest (remote) | **Country:** Romania

Technology stack:

- C#, ASP.NET, .NET Framework 4.8, .NET8, WPF, Windows Forms, ActiveMQ, Hangfire
- Angular, ngrx, npm
- Azure DevOps, Octopus, Grafana, Artifactory

Responsibilities:

- Lead and coordinate a multi-national team of 15 developers, QAs and business analysts, ensuring effective communication and collaboration across three countries while actively participating in code reviews to maintain high-quality standards.
- Direct the development and optimization of several integral applications within a larger platform. Break down and refine complex requirements from Product Owners and Business Analysts into actionable tasks for effective implementation.
- Drive key decisions, especially for projects transitioning to a modern tech stack, ensuring applications are scalable, maintainable, and optimized for performance.
- Oversee deployment strategies being properly applied and implement continuous integration and deployment processes, ensuring smooth, efficient releases and application stability.

[ 09/2019 – Current ] **University teaching assistant**

***Bucharest University of Economic Studies***

**City:** Bucharest | **Country:** Romania

Conducting laboratory work for various subjects:

- Object-Oriented Programming: C++
- Multimedia Programming: HTML, CSS, JavaScript, jQuery, canvas, audio-video API, browser game development, PWA
- Windows Application Programming: C#, .NET Framework, object-oriented programming, event-based programming
- Multimedia Techniques for Business: photo/video/audio editing and manipulation, website generation tools

[ 05/2022 – 09/2022 ] **Senior Solution Designer**

***Molson Coors GBS***

**City:** Bucharest | **Country:** Romania

Technology stack:

- Azure, AWS, SAP

Responsibilities:

- Design the cloud infrastructure for replacing the existing physical infrastructure.
- Coordinate teams of contractors for the implementation of the new services.

[ 07/2020 – 05/2022 ] **Senior Expert Azure Application Developer**

***OMV Petrom***

**City:** Bucharest | **Country:** Romania

Technology stack:

- C#, ASP.NET Core (MVC, WebAPI), Entity Framework Core, Dapper, SSRS, SQL Server
- Azure (Azure AD, API Management, Function Apps, Azure SQL Server, CI/CD)
- AutoMapper, SignalR, OpenXML, xUnit, Moq
- OsiSoft PI Suite (PI AF, PI DA, PI ML, PI SQL)

Responsibilities:

- involved in all stages of the application lifecycle
- designed and implemented the solution architecture following the business requirements
- assisted on the configuration of CI/CD pipelines for building and deploying the solution
- participated in various meetings to evaluate potential risks and proactively address the required changes
- developed business intelligence reports using SSRS
- configured PI suite products

[ 03/2019 – 08/2020 ] **Senior .NET Developer**

***Metro Systems***

**City:** Bucharest | **Country:** Romania

Technology stack:

- C#, ASP.NET Core WebAPI
- PostgreSQL, SQL Server
- Keycloak, Docker, Kubernetes, Kibana
- xUnit, Moq, RestAssured, Selenium, Specflow

Responsibilities:

- Develop cash register applications using microservices architecture, working mostly on invoicing and payment services
- Integrating the required hardware (POS, scanner, cash trays etc.)
- Developing automated testing infrastructure (both integration and end-to-end)

[ 03/2018 – 04/2019 ] **Senior .NET Developer**

***Gemini Solutions***

**City:** Bucharest | **Country:** Romania

Technology stack:

- HTML, CSS, AngularJS, Angular 2
- C#, ASP.NET Core WebAPI
- SQL Server
- Kibana, Graphite, Grafana

Responsibilities:

- Develop APIs in a microservice architecture to serve our client's ads engine
- Monitor production environment and proactively optimize or fix performance issues on our systems

[ 08/2015 – 04/2018 ] **.NET Developer**

***Ivanti / RES Software / Stefanini***

**City:** Bucharest | **Country:** Romania

Technology stack:

- HTML, CSS, JavaScript, JQuery, Knockout.js, TypeScript, Bootstrap
- C#, ASP.NET (MVC, WebAPI), Swagger, Unity (D.I.)
- SQL Server, ADO.NET, Entity Framework

Responsibilities:

- Develop front-end components for identity management & asset catalog solution
- Train interns and report on their progress
- Organizing and facilitating Scrum ceremonies

[ 04/2013 – 09/2015 ] **.NET Developer**

***Teamnet International***

**City:** Iași, Bucharest | **Country:** Romania

Technology stack:

- HTML5, CSS3, JavaScript, jQuery, AngularJS, Bootstrap, KendoUI, Telerik
- C#, ASP.NET Webforms, ASP.NET (MVC, WebAPI)
- SQL, ADO.NET, NHibernate, SSRS
- NPOI, OpenXML

Responsibilities:

- Develop new functionalities on both back-end and front-end for various governmental institutions (Ministry of Finances, Ministry of Work, Ministry of Foreign Affairs)
- Write technical documentation
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## EDUCATION AND TRAINING

[ 09/2019 – 11/2025 ] **Ph.D. in Economic Informatics**

***Bucharest University of Economic Studies***

| **Thesis:** Thesis: Design and implementation of a geographic information system for smart agriculture

- .NET, Angular, SQL Server, Azure
- Machine learning & artificial intelligence algorithms, TensorFlow, Python, ML.NET, CUDA, Metashape, UgCS SDK

[ 09/2017 – 10/2019 ] **M.Sc. in Information Security (taught in English)**

***Bucharest University of Economic Studies***

| **Thesis:** Thesis: Securing MQTT communication in IoT environments

- Cryptography, Security Standards and Protocols, Virus and Antivirus Technologies,
- Secure Application Programming (Database, Web & Cloud, Network, E-Commerce & E-Payment Security), IoT Security
- Electronic Signature, Smart Cards & Biometrics

[ 09/2010 – 10/2017 ] **B.Sc. in Computer Science**

***Alexandru-Ioan Cuza University | Hyperion University***

| **Thesis:** Thesis: Web application to manage taxes in a university

- Object-Oriented Programming, Procedural Programming, Rule-Based Programming
- Computer Networks,, Artificial Intelligence, , Web Technologies, Computer Graphics
- Algorithms, Graphs, Mathematics

## LANGUAGE SKILLS

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**Mother tongue(s):** Romanian

**Other language(s):**

**English**

**LISTENING C2 READING C2 WRITING C2 SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2**

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

## DIGITAL SKILLS

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### My Digital Skills

#### Server side technologies

C# | ASP.NET | Swagger | ASP.NET Core | RabbitMQ | HTTP | WCF | Automapper | LINQ | SignalR

#### Client side technologies

HTML | Knockout.js | CSS | JavaScript | jQuery | Kendo UI | Angular | Bootstrap | TypeScript | WPF | Windows Forms

#### Testing

xUnit | NUnit | Moq | SpecFlow | Selenium C# | Rest Assured

#### Databases, ORM & Business Intelligence

SQL | PostgreSQL | PostGIS | SSRS | PowerBI | Dapper | SQL Server | ADO.NET | Entity Framework | Entity Framework Core

#### Infrastructure, monitoring & reporting

Docker | Kubernetes | Azure | Graphite | Grafana | Kibana | Git | Gerrit | Sonar | Keycloak | Octopus

#### Version control

TFS | Git | SVN

#### Working methodologies

Scrum | Waterfall | Kanban

#### Other skills

Software architectures | Team leading | Technical documentation | Mentoring | Design patterns | Gathering business requirements | Clean coding | Presentation skills  
| Client oriented