



Andrei Tara is an entrepreneur, software architect and computer science PhD student. With an inborn passion<sup>■</sup> and 10+ years of hands-on experience working with NCR, Nestle, Siemens, VW and NXP, he rose to the top 3% software experts<sup>■</sup>. Motivated to carry out a substantial contribution to society Andrei founded Openfabric<sup>■</sup> and TransylvaniaLabs, companies focusing on emergent technologies of Artificial Intelligence, and Blockchain.

## E X P E R I E N C E

- 2019 - Present ○ **Openfabric**  
Globally  
**Founder & CEO**
- Open Fabric is an industry ready meta-platform that brings the internet of AI to products and services. It abstracts the algorithmic complexity, fosters seamless integrations and closes the gap between business problems and technical solutions.
- Technologies:** Blockchain, Artificial Intelligence, Internet of AI (IoAI), Next Generation Internet,
- 2015 - Present ○ **TransylvaniaLabs**  
Florida, USA / Sibiu, Romania  
**Founder & Chief Architect**
- The role assumes technical and business coordination of a company focusing on complex systems that are reshaping the current landscape of technological evolution. With a team of experts committing more than a decade for gathering experience in Computer Science Research and Development, TransylvaniaLabs is a company that shares the know-how to the world.
- Technologies:** Enterprise Architectures, Blockchain, Artificial Intelligence, Next Generation Internet, Fuzzy Logic Systems.
- 2018 - 2020 ○ **Insolar**  
Zug, Switzerland  
**Research Fellow**
- The role implied scientific research on the next-generation high-performance, a scalable blockchain platform designed with the express purpose to meet an immense business scope. The enterprise-grade distributed ledger cloud platform will help to increase business velocity, create new revenue streams, and reduce cost and risk by securely extending enterprise SaaS and on-premises applications to drive tamper-resistant transactions on a trusted business network.
- [Show More ▼](#)
- Technologies:** Blockchain, Distributed virtual machines, Enterprise blockchain, Verifiable smart contracts.
- 2016 - 2019 ○ **Blockchain architect**  
Sibiu, Romania  
**Blockchain Society**
- The advisory role in the project assumed contribution to creating the backbone of an emerging architecture integrating business processes and blockchain with smart-city solutions.
- Technologies:** Blockchain, Smart city, Business processes, Identity.
- 2017 - 2018 ○ **Elrond network**  
Malta / Romania  
**Core Developer**
- The role implied scientific research and development on the world's first high throughput blockchain platform implementing adaptive state sharding and secure proof of stake
- Contributed to concept scientific research, system architecture and whitepaper writing;
  - Contributed to the prototype implementation and technical coordination of the project.
- [Show Less ▲](#)
- Technologies:** Blockchain, Adaptive State Sharding.
- 2012 - 2017 ○ **Paradine**  
Vienna, Austria / Sibiu, Romania  
**Enterprise Application Developer**
- The role implied the development of custom software solutions using business processing, ontologies and master data repository models for enterprise-grade customers.
- Contributed to the development of a portal implementing ecl@ss and OntoML standards; meant to allow transparent communication, acquisition and enhancement of data between big industry players;
  - Implemented complex business processes and rules over large data sets.
- [Show Less ▲](#)
- Technologies:** Java EE, Hibernate, EJB, JavaScript, DB2, Oracle, SEAM, Hibernate, JSF, EJB, JBPM.
- 2012 - 2015 ○ **Cetabo**  
Sibiu, Romania  
**Cofounder & Application Developer**
- The role implied all aspects of running a software outsourcing company, including sales, support, testing, development and accounting.
- [Show More ▼](#)
- Technologies:** Laravel, Node.js, Angular 4, Java, iOS, Swift, Android, WordPress, AWS, PHP, LAMP, MySQL, MongoDB, SSL, AWS, Docker, Ionic 3, Spring Boot, Firebase, Java, Spring MVC, Quartz, Hibernate, SQL Server, JPA, Angular.
- 2011 - 2012 ○ **Mayabo**  
Delaware USA / Sibiu, Romania  
**Social Web Application Developer**
- The role assumed an agile execution for the novel ideas of a startup company. The company was exploiting the viral power of social networks in gaming and boosting online sales.
- Engaged in the implementation of online games connecting social media friends;
  - Contributed to the implementation and design of a complete platform (dashboard, tracking, integrations with Magento, OpenCart and WooCommerce) boosting sales through social networks.
- [Show Less ▲](#)
- Technologies:** PHP, JavaScript, Zend, Kohana, MySql, JavaScript, HTML, CSS, XML, Facebook API, Twitter API, Magento, Amazon AWS cloud.
- 2012 - 2015 ○ **Sotec**  
Ostelsheim, Germany / Sibiu, Romania  
**Business Application Developer**
- Business application developer  
The role implied the development of custom software solutions for enterprise customers like McDonald's and Coca Cola.
- Contributed to the implementation of a platform intended to track and predict food waste;
  - Engaged in the conception and implementation of a portal used to track and diagnose computer terminals on a private network;
  - Created internal tools for time management and tracking.
- [Show Less ▲](#)
- Technologies:** Java, Python, C#, ASP.NET, JavaScript, HTML, CSS, XML, Google App Engine, Microsoft Windows Azure.

## P U B L I C A T I O N S

Dynamic Storage Optimization for Communication between AI Agents

Future Internet, 16(8), 274. MDPI.  
Year: 2024

An Evaluation of Storage Alternatives for Service Interfaces Supporting a Decentralized AI Marketplace

IEEE Access. IEEE.  
Year: 2023

Performance Analysis of an Ontology Model Enabling Interoperability of Artificial Intelligence Agents

In Computer Science On-line Conference 2022, published in the Springer Series: Advances in Intelligent Systems and Computing, pp. 395–406.  
Year: 2022

A Decentralized Ontology Versioning Model Designed for Inter-operability and Multi-organizational Data Exchange

In Computer Science On-line Conference 2021, published in the Springer Series: Advances in Intelligent Systems and Computing, pp. 617–628.  
Year: 2021

An Ontology Model for Interoperability and Multi-Organization Data Exchange

In Computer Science On-line Conference 2020, published in the Springer Series: Advances in Intelligent Systems and Computing, pp. 284–296.  
Year: 2020

Dynamic Consensus: Increasing Blockchain Adaptability to Enterprise Applications

In Computer Science On-line Conference 2020, published in the Springer Series: Advances in Intelligent Systems and Computing, pp. 433–442.  
Year: 2020

The Evolution of Blockchain Virtual Machine Architecture Towards an Enterprise Usage Perspective

In Software Engineering Methods in Intelligent Algorithms: Proceedings of the 8th Computer Science On-line Conference 2019, Vol. 1, pp. 370–379. Springer.  
Year: 2019

Crawling – A Solution for Efficient E-Government: Study on Anti-Counterfeiting Trade Agreement (ACTA) Focused on Social Media

9th International Economic Conference – IECS 2012.  
Year: 2012

Data Mining in Social Networks

The Third International Conference in Romania on Information Science and Information Literacy.  
Year: 2012

## T E A C H I N G

2017 - Present

**TEACHING ASSISTANT**  
*software engineering*

Teaching software engineering courses on undergraduate students.

Lucian Blaga University of Sibiu

2011 - 2013

**TEACHING ASSISTANT**  
*game programming*

Teaching software engineering courses on undergraduate students.

Lucian Blaga University of Sibiu

## E D U C A T I O N

Universitatea Lucian Blaga din Sibiu

**MS - Advanced computing systems**  
2010 -2012

Universitatea Lucian Blaga din Sibiu

**BS - Computer science**  
2006 -2010

Universitatea Lucian Blaga din Sibiu

**PhD Studies Blockchain Architectures**  
2018 - Present

## L A N G U A G E S

Romanian  
Native or bilingual proficiency

English  
Full professional proficiency

German  
Professional working proficiency

French  
Elementary proficiency