

PERSONAL INFORMATION

Adrian Moldovan



 Brasov, Romania
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 <https://www.linkedin.com/in/amoldovan/>
 Nationality Romanian

WORK EXPERIENCE

- May 2016 - present

Research Engineer/Consultant:
 Siemens, Brasov, Romania,

 - Solution design for unsupervised anomaly detection
 - Product architecture for analytics and AI tools
 - Consultant for MLOps solution and product architecture

Business or sector Automation Machinery Manufacturing
- Sep 2006 – May 2016

Senior Software Engineer
 SugarCRM (W-Systems Corp)

 - Heavy customization of various CRM tools
 - Consultant from product architecture to production for most of the projects

Business or sector Software Development
- Sep 2006 – May 2016

Freelancer Senior Software Engineer
 LinkedSoft

 - E-commerce development and customization
 - Software tools automation custom development for various industries

Business or sector Software Development
- Jun 2006 – Jul 2009

Senior Software Engineer
 Eirtight (DBI)

 - Software automation for marketing, insurance, computer manufacturing, software services and communication sectors
 - Worked for solution design and implementation with customers from top 5 in IT sector

Business or sector Software Development
- Nov 2004 – May 2006

Software Engineer
 Siemens (Siemens PSE Austria)

 - Designed and implemented custom search language and backend for integrating a customizable search engine
 - The product was supposed to allow a custom search in millions of patent documents

Business or sector Software Development
- Oct 2003 – Nov 2004

Software Engineer
 Waters

 - Frontend development in .NET for chromatography tools

Business or sector Software Development
- Jun 2003 – Oct 2003

Senior Software Engineer
 Euro Systems Development

 - ASP.NET frontend development for various projects

Business or sector Software Development

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EDUCATION AND TRAINING

- 2017 - present **PhD Student**
 Research of Information Theory tools applied in Machine and Deep Learning
- 2000 - 2004 **Bachelor's degree in computer science**
 Mathematics-Informatics Faculty, Transilvania University
- 1996 - 2000 **"Dimitrie Cantemir" Military National College**
 Mathematics-Physics

PERSONAL SKILLS

Mother tongue(s)

Romanian

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
	English	C2	C2	C2	
French	B1	A2	A2	A1	A1
German	A2	B1	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Excellent and complete communications skills in both verbal, digital and written:
- Acted as PO for various projects
 - Responsible for customer communication
 - Responsible for sub-contractor communication
 - Freelancer for many freelancing years where I was the sole entry point for all projects

ADDITIONAL INFORMATION

Publications

Feedforward Neural Networks Accelerated by Transfer Entropy, <https://doi.org/10.3390/e22010102>, 2020
 Learning in Convolutional Neural Networks Accelerated by Transfer Entropy, 2021, <https://doi.org/10.3390/e23091218>

Presentations

LLMs, RAGs and AI Agents for <https://peakit.ro/> 006, May 2024

Conferences

Information Plane Analysis Visualization in Deep Learning via Transfer Entropy, 2023, <https://ieeexplore.ieee.org/servlet/opac?punumber=10303005>
 Transfer Entropy in Graph Convolutional Neural Networks, 2024, <https://ieeexplore.ieee.org/xpl/conhome/1000370/all-proceedings>