

Curriculum vitae

Personal Information

First Name, Surname **Ana-Maria, Ghimes**

Address Bucharest

E-mail ghimes.ana@gmail.com

Nationality Romanian

Gender Female

Work Experience

Dates	2017 (October) - Present
Occupation or position held	Technical Team Leader
Main activities and responsibilities	<p>Daimler Van (Trivadis) Project - Creating a suite of microservices and web application for an IoT application used by vans in Microsoft Windows Azure. Technologies: C#, Service Fabric, Windows Azure, Angular, SQL Server, SQL Azure.</p>
Dates	2016(July) – 2017 (October)
Occupation or position held	Senior .NET Developer
Main activities and responsibilities	<p>Developing applications for different clients: Projects:</p> <ul style="list-style-type: none">• Bixi Project (Trivadis)– The application is a two-part security access application (Desktop application -WPF and a Web application) developed to maintain details about the users, badges, etc, and to register entries in several areas and buildings. A new module was developed through which certain users receive invitations to enroll into this application. Also, the application was secured for external usage through the implementation of an Identity Server as an alternative to Active Directory. Technologies: WPF, WCF, Sql Server, NTier Entity• Airingclose Project - The Web application is an electronic matching platform. I was developing the UI and providing the signatures of methods for backend. Technologies: HTML/ HTML 5, CSS/ CSS3, Javascript, JQuery, Bootstrap, jsTree and jqGrid (as third party plugins)• Daimler Van (Trivadis) Project Stefanini, Bucharest. Software Industry
Name and address of employer	
Type of business	
Dates	2013 (August) – Present
Occupation or position held	Associate Teacher & Research Engineer
Main activities and responsibilities	<p>Teaching the “Developing ADO.NET 4.0 Database Applications” Course , “ Web technologies” Course; Research and studies on main cryptographic Algorithms and Protocols, Security Technologies, information Security Management</p>
Name and address of employer	Military Technical Academy, Department of Computer Science, Bucharest.
Type of business	University
Dates	2014(September) – 2016(July)
Occupation or position held	.NET Developer

Main activities and responsibilities "Teamshare" - The application is a framework for content management and rapid e-commerce website deployment development.
Technologies: ASP.NET Web Forms , ADO.NET, C#, JavaScript, AJAX, jQuery, HTML, CSS, Bootstrap Twitter, SQL Server, WCF

Name and address of employer Entelion Software, Bucharest.
Type of business Software Industry

Dates 2012 (August) – 2014(September)

Occupation or position held **.NET Developer**

Main activities and responsibilities The main project is an ASP.NET MVC application with WCF and Entity Framework backend used for managing a TeraByte scale database (SQL Server 2008 R2) and generating charts and graphs with DLogik DGLux and Highcharts.
The project was developed during two years period by twelve developers using Agile Methodologies.
Technologies: Developing applications using: ASP.NET MVC , ADO.NET, C#, Crystal Reports, Entity Framework, JavaScript, AJAX, jQuery, HTML, CSS, Bootstrap Twitter, SQL Server, WCF, DGLux, Highcharts

Name and address of employer Compu Cons, Bucharest.
Type of business Software Industry

Dates 2012 (January) –2012 (June)

Occupation or position held **.NET Developer**

Main activities and responsibilities Developing an application for managing overall activity of the clinic (consults, patient history)
Technologies: C#, .NET, Windows Forms, SQL Server 2008 R2

Name and address of employer freelancer
Type of business Private Healthcare.

Education and training

University Studies

Dates/Status 2015 -present

Title and qualification awarded Ph.D. Candidate in Computer Science

Main subjects/ occupational skills covered Ph.D. Thesis Title: "Big Data Analytics in Cyber Security"

Name of the University Military Technical Academy, Department of Computer Science, Bucharest.

Dates/Status 2013-2015, Graduate

Title and qualification awarded Master Degree, Data Security

- Principal subjects:
Mathematics in Information Security, Computational cryptography, Security Protocols, Electronic Signatures and Security Infrastructures, Network Security, Database Security, Security of Web Applications, Security of electronic payment systems.
- Master Thesis Title:
"Confidentiality, anonymous authentication and access control of documents stored in cloud"

Main subjects/ occupational skills covered Military Technical Academy, Department of Computer Science, Bucharest.

Name of the University 2013-2015

Dates/Status 2009 – 2013, Graduate

Title and qualification awarded Bachelor Degree, **Computer Engineer**

Main subjects/ occupational skills Covered

- Principal subjects:
Programming (C, C++, C#, Assembly)
Web Development (PHP, JavaScript)
Windows Azure
Database (SQL Server Querying and Administration, ADO.NET)
Linux C Programming
Criptography Programming (OpenSSL)
Integrated Circuit Programming (VHDL)
Graphics Programming (OpenGL)
- Bachelor Thesis Title: "Web Technologies in cloud computing" (e-Notary application)

Name of the University Military Technical Academy, Department of Computer Science, Bucharest.

High School

Dates/Status 2005 – 2009

Title and qualification awarded Assistant Programmer Certificate

Name and type of organisation providing education „Zinca Golescu” High School, Pitesti

Courses

Blackberry PlayBook Development Using HTML5 (May, 11th, 2012)

Developing BlackBerry PlayBook applications using HTML 5

ASP.NET MVC 3 (January, 20th - 22nd, 2012)

Scoala de IT Romania

Certifications 70-461: Querying Microsoft SQL Server 2012
Xamarin Certified, August 2017
Cisco IT Essentials 1
CCNA (1 and 2)

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s) **English**

Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	C1 Experienced	C1 Experienced	C1 Experienced	C1 Experienced	C1 Experienced

(*) [Common European Framework of Reference for Languages](#)

Driving license Category B

Additional Information Publications and research activities:
● **14 conference and journal papers**

First author:

Journals:

1. Ana-Maria Ghimes, Andrei-Marius Avram, Valentin-Alexandru Vladuta, "A Character Prediction Approach in a Security Context using a Recurrent Neural Network", International Symposium on

Electronics and Telecommunications ETC 2018, Nov. 2018, Timisoara, doi: 10.1109/ISETC.2018.8584007

2. Ana-Maria Ghimes, Valentin-Alexandru Vladuta, Adrian Ionita, VictorValeriu Patriciu, "Applying neural network approach to homomorphic encrypted data", 2018 10th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Iasi 2018, doi: 10.1109/ECAI.2018.8679085

3. Ana-Maria Ghimes, Victor Patriciu, "A survey of Big Data Analytics Techniques in Cyber Security", International Journal of Latest Research in Engineering & Technology (IJLRET) Volume 03 – Issue 02, February 2017, pp.21-25

4. Ana-Maria Ghimes, Victor Patriciu, "Proposed Scheme for Data Confidentiality and Access Control in Cloud Computing". In: Bica I., Reyhanitabar R. (eds) Innovative Security Solutions for Information Technology and Communications. SECITC 2016. Lecture Notes in Computer Science, vol 10006. Springer, Cham, doi: 10.1007/9783-319-47238-6 20

Conferences:

1. Ana-Maria Ghimes, Andrei-Marius Avram, Valentin-Alexandru Vladuta, "A Character Prediction Approach in a Security Context using a Recurrent Neural Network", International Symposium on Electronics and Telecommunications ETC 2018, Nov. 2018, Timisoara.

2. Ana-Maria Ghimes, Valentin-Alexandru Vladuta, Adrian Ionita, VictorValeriu Patriciu, "Applying neural network approach to homomorphic encrypted data", 2018 10th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Iasi 2018

3. Ana-Maria Ghimes, Victor Patriciu, "Neural Network Models in Big Data Analytics and Cyber Security", 2017 9th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Targoviste, 2017, doi: 10.1109/ECAI.2017.8166441

Co-author:

Journals:

1. Alexandru-Valentin Vladuta, Diana-Andreea Arsene, Ana-Maria Ghimes ,, "A Survey on Authentication Schemes for Wireless Sensor Networks", Journal of Military Technology, vol. I, no. 2, Dec. 2018

2. Alexandru-Valentin Vladuta, Ana-Maria Ghimes ,, Victor-Valeriu Patriciu, "Data acquisition and big data techniques for user profiling in Internet of Things", MTA Review, vol. XXVI, no. 3, Sept. 2016

Conferences:

1. Valentin-Alexandru Vladuta, Ana-Maria Ghimes, Victor Valeriu Patriciu, "A Proposed Solution for Analyzing the Behavior of a WSN using a Secured Neural Network Approach", International Symposium on Electronics and Telecommunications ETC 2018, Nov. 2018, Timisoara, doi: 10.1109/ISETC.2018.8583859

2. Valentin-Alexandru Vladuta, Ana-Maria Ghimes, Constantin Grumazescu and Victor-Valeriu Patriciu, "Trajectory influence on data collection in Wireless Sensor Networks using an Unmanned Aerial Vehicle", 2018 10th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Iasi 2018, doi: 10.1109/ECAI.2018.8679047

3. Valentin-Alexandru Vladuta, Ioana Apostol, Ana-Maria Ghimes, "Data Collection Analysis: Field Experiments with Wireless Sensors and Unmanned Aerial Vehicles", IEEE 12th International Conference on Communications – COMM 2018, June 2018, Bucharest, doi: 10.1109/ICComm.2018.8430172

4. Valentin Alexandru Vladuta, Constantin Grumazescu, Ana Maria Ghimes, "Use Cases and Designs for a Brain-Computer Interface using EEG Wireless Sensors", 2018 International Symposium on Fundamentals of Electrical Engineering 2018, Nov. 2018, Bucharest

5. Alexandru-Cosmin Grivei, Ana-Maria Ghimes, "Modern Considerations for Data Mining and Big Data", IEEE 11th International Conference on Communications – COMM 2016, June 2016, Bucharest, doi: 10.1109/ICComm.2016.7528265

● **Research projects**

- „Simularea si modelarea comportamentului telocitelor in procesele de semnalizare si regenerare tisulara (TELOSIM)", PN-II-PT-PCCA-2014-7, May 2015- June 2016, member.

- "Advanced models for the design and evaluation of modern cryptographic systems (ADECS)", PN-II-PT-PCCA-2011-3, September 2015 – December 2015, member.