Personal information

Surname	**Pătcaş**
Given name	**Csaba-György**

Work experience

2020 - preset	**Senior lecturer at "Babeş-Bolyai" University, Cluj-Napoca**
	Classes taught: Advanced problem solving, Algorithms, Graph algorithms
2018 - 2020	**Associated teacher at "Babeş-Bolyai" University, Cluj-Napoca**
	Classes taught: Advanced problem solving, Algorithms
2016 - 2019	**Programmer at S.C. Codemart S.R.L., Cluj-Napoca**
	Projects:

- Episense: Software assisting doctors in treating epilepsy

- Uniassist: This project is used by refugees to register for free studies in German universities

- RvWeb: Work done as an external colleague for UNIQA Raiffeisen Software Service on various insurance modules

- Check Out Engine: Project used to book German courses and exams offered by the Goethe-Institut

- ImageAPI: Backend code for managing health insurance documents for Postbeamtenkrankenkasse

Technologies and tools used frequently: Java, JavaFX, Maven, SVN, IntelliJ IDEA, Eclipse, Windows 10, JIRA, Hudson, Jenkins, JSP, Wicket, Kotlin

Technologies and tools used occasionally: Spring, Struts, JSF, EJB

2014 - 2016	**Programmer at Rivo Software (Cloudlink SRL before 2015 July), Cluj-Napoca**
	Projects:

- Safeguard: Leading health and safety management software (http://www.rivosafeguard.com/)

- R2: Second generation of Safeguard

- SnapEngageNetSuiteIntegrator: An integration between the SnapEngage chat client and the NetSuite cloud business software suite

Technologies and tools used frequently: Java, GWT, VB.NET, MS SQL Server, MongoVUE, Git, TFS, IntelliJ IDEA, Visual Studio 2012, IIS, Windows 7, JIRA, NetSuite, GitLab

Technologies and tools used occasionally: CSS, ASP.NET, OWL, Drools, Javascript, Selenium, jUnit, Jenkins, Windows 8

Certificates:

- Agile Software Development Using Scrum training by Mozaic Works

2013	**Programmer at Catalysts Software Romania, Cluj-Napoca**

Projects:

- WYCONN: Remote configuration of small devices running OpenWrt Linux (http://wyconn.com/)

- News cockpit: Software developed to facilitate the work of the staff members of online newspapers

Technologies and tools used frequently: Grails, Groovy, Java, jUnit, HTML, GSP, CSS/LESS, Git, YouTrack, IntelliJ IDEA, Windows 7

Technologies and tools used occasionally: Selenium, MySQL Workbench, GCC, Make, Ubuntu Linux, VirtualBox, Gradle, Spring, jQuery, JavaScript, ANTLR, jsoup, TeamCity, Eclipse

Other responsibilities:

- I performed administrative tasks needed to set up the office in the startup phase.

- I was promoting the company at the CariereInIT job fair in March 2013.

- I was part of the organization team and scientific advisor for the Catalysts Coding Contest in Cluj Napoca, held in April 2013 with around 150 participants and in October 2013 with over 200 participants.

- I helped growing and coordinating the team, which started with two members in January and reached 15 members by December.

2005 - 2012	**Teaching Assistant at "Babeş-Bolyai" University, Cluj-Napoca**

I taught mostly lab classes for algorithms, data structures and graph theory. I introduced a new class to the university syllabus on the topic of advanced problem solving.

2007	**Virus Analyst at Bitdefender, Cluj-Napoca**

I was trained how to analyze, detect and clean computer malware, especially file-infectors.

Technologies and tools used frequently: IDA, Assembly

Technologies and tools used occasionally: Microsoft Visual C

2005 - 2007	**Editor of the "Gazeta de Informatică" journal, Cluj-Napoca**

Publications

2019	C. Pătcaş: *Advanced informatics problem solving methods (in Hungarian)*, Cluj University Press, 2019
2019	K. Ionescu and C. Pătcaş: *How can we become professional programmers? (in Hungarian)*, Cluj University Press, 2019
2019	C. Pătcaş, A. Bartha: *"Evolutionary solving of the debts' clearing problem"*, Acta Universitatis Sapientiae, Informatica, volume 11(2):142–158, 2019
2012	C. Pătcaş: *"The debts' clearing problem's relation with complexity classes"*, Acta Mathematica Academiae Paedagogicae Nyíregyháziensis, 28(2):217–226, 2012

2011	C. Pătcaş: *"The debts' clearing problem: a new approach"*, Acta Universitatis Sapientiae, Informatica, volume 3(2):192–204, 2011
2009	C. Pătcaş: *"On the debts' clearing problem"*, Studia Universitatis Babeş-Bolyai Series Informatica, volume 54(2):109–120, 2009
2008	C. Pătcaş and K. Ionescu: *"Algorithmics of the knapsack type tasks"*, Teaching Mathematics and Computer Science, volume 6(INFODIDACT):37–71, 2008
	K. Ionescu and C. Pătcaş: *"Improving the Performance of Algorithms Using the Principles of Binary Search (in Hungarian)"*, Technical Review volume 43(3):7–14, 2008

Talks given at conferences

2008	*"On the debts' clearing problem"*, 7th Joint Conference on Mathematics and Computer Science (MACS), Cluj-Napoca, Romania
	"Algorithmics of knapsack type tasks", I. Conference on Informatics Methodology (INFODIDACT), Szombathely, Hungary
2005	*"Preparing students for programming contests"*, 15th International Conference in Computer Science and Education (SzámOKT), Cluj-Napoca, Romania
2004	*"Evaluation of programs written in programming contests"*, 7th Transylvanian Students' Scientific Conference (ETDK), Cluj-Napoca, Romania

Other professional activities

2015	I have taught contest preparation weekend courses for high-school pupils sponsored by Fundaţia eMAG.
2003 - 2020	I have been a scientific committee member of several regional and national programming contests.
2003 - 2020	I was preparing pupils and students to participate in various programming contests, partly as the coach of the ACM team of the "Babeş-Bolyai" University.
2009	I was the team leader of Romania at the Central European Olympiad in Informatics, Târgu-Mureş, Romania.

Education

2006 - 2012	**Informatics PhD at Babeş-Bolyai University, Cluj-Napoca** Topic of dissertation: The study of the dynamic graphs
2011	**Informatics PhD at Johannes Kepler University, Linz**, with CEEPUS scholarship
2006	**Informatics master at Bayerische Julius-Maximilianus University, Würzburg**, with Erasmus - Socrates scholarship
2005 - 2006	**Intelligent systems master at Babeş-Bolyai University, Cluj-Napoca** GPA: 86.0%. Thesis: 100%. Title of thesis: The gossip problem in dynamic graphs
2001 - 2005	**Informatics bachelor at Babeş-Bolyai University, Cluj-Napoca** Entrance examination: 100%. GPA: 88.5%. State examination: 95.4% Title of thesis: Evaluation of programs written in programming contests

Awards

2017	1. place locally in Frankfurt, Germany, 5. place worldwide at the international Catalysts Coding Contest (out of over 2100 participants in 18 host cities)
2016	10. place at the international MindCoding contest, Cluj-Napoca, Romania
2015	4. place at the international Catalysts Coding Contest, Cluj-Napoca, Romania
2014	3. place at the international MindCoding contest, Cluj-Napoca, Romania
2012	2. place at the international Catalysts Coding Contest, Vienna, Austria
	1. place at the international Catalysts Coding Contest, Cluj-Napoca, Romania
2011	9. place at the international Catalysts Coding Contest, Hagenberg, Austria
	5. place at the international Catalysts Coding Contest, Vienna, Austria
2004	10. place (4. Romanian team) at ACM Southeastern European regional, Bucharest
2002	9. place (1. Romanian team) at ACM Southeastern European regional, Bucharest
2001	1. prize at the National Olympiad of Informatics, Bacău
	10. place at the Nemes Tihamér international programming contest, Budapest
	13. place (4. Romanian team) at ACM Southeastern European regional, Bucharest
2000	2. prize at the National Olympiad of Informatics, Constanţa
1999	3. prize at the National Olympiad of Informatics, Mediaş

Languages

Hungarian	Mother tongue
Romanian	Excellent
English	Conversational
German	Basic

Other skills and interests

Driving licence	Category B, since 2001
Hobbies	High altitude hiking, ballroom dancing