



Mihai Daniel Chiroiu (Bucicoiu)

Nationality: Romanian **Date of birth:** 7 Nov 1986 **Gender:** Male

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Work: Splaiul Independenței nr. 313, PRECIS, PR702, 060042 București (Romania)

WORK EXPERIENCE

Member

Board of European Students of Technology [29 Sep 2006 – 29 Jun 2010]

Address: Splaiul Independenței 313, Bucharest (Romania)

Responsible for coordination of the IT department in multiple project (website building, wireless infrastructure, etc.).

Instructor

Academia CISCO din UPB [29 Sep 2007 – 1 Oct 2015]

Address: Splaiul Independentei 313, 060042 Bucharest (Romania) | **Website:** www.ccna.ro | **Business or sector:** Education

Instructor within the Cisco Networking academy program for the following courses (and more): Cisco Certified Network Associate Routing & Switching (CCNA), Cisco Certified Network Associate Security, CCNA Cyber Ops, Cisco Certified Network Professional (CCNP) Routing and Switching.

Instructor

Academia Microsoft din UPB [29 Sep 2009 – 31 Aug 2012]

Address: Splaiul Independentei 313, 060042 Bucharest (Romania) | **Website:** academy.microsoft.pub.ro/ | **Business or sector:** Education

I was the co-founder of a local Microsoft IT academy within the Computer Science department, where I've taught classes regarding the configuration and administration of Microsoft Server 2008 services (e.g. DNS, routing, AD).

ICT network administrator

Agenția A.R.N.I.E.C (Romanian Education Network) [13 Apr 2009 – 31 Mar 2015]

Address: Mendeleev, nr. 21 - 25, 010362 Bucharest (Romania) | **Website:** www.roedu.net | **Business or sector:** Professional, scientific and technical activities

I was responsible for the Network Operation Center in Bucharest, debugging, configuring and maintain the whole infrastructure including, but not limited to, BGP, MPLS, ISIS, OSPF, VRFs.

University research assistant

Technical University of Darmstadt [31 Aug 2012 – 31 Mar 2014]

City: Darmstadt | **Country:** Germany

I was involved with multiple research project on mobile and cloud computing security, working together with Intel or Amazon from industry.

Assistant Professor

University Politehnica of Bucharest [28 Feb 2009 – 31 Aug 2015]

Address: Splaiul Independenței nr 313, Sector 6, 060042 Bucharest (Romania) | Website: www.upb.ro | Business or sector: Education

I was a teaching assistant for the following courses: Local Network, Network Design, Securing Network using Dedicated Equipments. My main tasks were creating and maintaining teaching materials, constructing teams for each course, monitoring and generating exams. I was on leave during my time at Darmstadt as a research assistant.

Lecturer Computer Science

University Politehnica of Bucharest [30 Sep 2015 – 30 Sep 2019]

Address: Splaiul Independenței nr 313, Sector 6, 060042 Bucharest (Romania) | Website: www.upb.ro | Business or sector: Education

My main duties as a lecturer within the Computer Science department, UPB, were regarding the Local Network courses (about 120 students), Performance Evaluation (course redesign for the 4th year bachelor students) and Securing Networks using Dedicated Equipments (Cisco, Fortinet).

Associate Professor

University Politehnica of Bucharest [30 Sep 2019 – Current]

City: Bucharest | Country: Romania

My main responsibilities in the Computer Science department, UPB are with Local Networks (3rd year, 150 students), Testing Systems Security (4th year, 100 students), Securing Networks with Dedicated Equipments (1st year master, 30 students) and Cyberdefence and Cyberintelligence (in English, 1st year master, 30 students).

Owner

RUMI SOLUTIONS SRL [1 Mar 2017 – Current]

City: Bucharest | Country: Romania

I run my own small company that provides professional training activities for networking and security. My company is partner of the Cisco Networking Academy program and CompTIA, and we have delivered training for more than 50 persons per year (from beginner to advanced). Our main brand website is <https://itacad.ro/>.

Responsible for postgraduate program in cybersecurity auditing

University Politehnica of Bucharest [1 Oct 2022 – Current]

City: Bucharest | Country: Romania

- created a postgraduate program together with CompTIA and EC-COUNCIL
- certifications covered: Security+, CySA, CEH, CHFI
- teaching Security+

EDUCATION AND TRAINING

High school diploma

National College "I. C. Brătianu" [31 Jul 2001 – 31 May 2005]

Address: Armand Călinescu, 110047 Pitești (Romania)

Matematica-informatica intensiv

Bachelor degree

Computer Science Department, University Politehnica of Bucharest [31 Aug 2005 – 31 May 2009]

Address: Splaiul Independentei 313, 060042 București (Romania)

Calculatoare și Tehnologia Informației, Specializarea C3 - Sisteme de programare de bază

Master degree

Securing Complex Networks, UPB [31 Aug 2009 – 27 Feb 2011]

Address: Splaiul Independentei 313, 060042 București (Romania)

Competențe privind planificarea, administrarea și securizarea rețelelor complexe de calculatoare.

PhD in Computer Science

University Politehnica of Bucharest [28 Feb 2011 – 10 Nov 2014]

Address: Splaiul Independenței 313, 060042 București (Romania)

Cisco Certified Network Associate

CISCO Systems [10 Oct 2008]

Configurarea unei rețele de calculatoare, nivel mediu.

Cisco Certified Academy Instructor

CISCO Systems [29 Oct 2008]

Certificare pentru atestarea aptitudinilor de instructor.

Microsoft Certified Technology Specialist: Windows Server 2008 Network Infrastructure

Microsoft [18 Oct 2009]

Configurarea, administrarea și monitorizarea serviciilor oferite de către sistemul de operare Microsoft Server 2008.

Cisco Certified Network Professional

CISCO Systems [29 Mar 2010]

Configurarea unei rețele de calculatoare, nivel avansat.

Microsoft Certified Technology Specialist: Windows Server 2008 Active Directory, Configuration

Microsoft [28 Dec 2010]

Configurarea unui sistem integrat bazat pe Active Directory și tehnologii Windows

Microsoft Certified IT Professional: Server Administrator on Windows Server 2008

Microsoft [28 Dec 2010]

Planificarea și monitorizarea unei rețele de dimensiuni medii bazată pe tehnologii Microsoft

Fortinet Certified Network Security Professional

Fortinet [16 Apr 2012]

CCNA Cyber Ops

CISCO Systems [31 Jul 2018]

Cisco Certified Network Associate Security (CCNA Security)

CISCO Systems [31 Jan 2011 – Current]

CompTIA Security+

CompTIA [29 Jul 2018]

Cisco Certified Network Professional Security (CCNP Security)

CISCO Systems [30 Jun 2019 – Current]

Formator (cod COR 242401)

Structural Euro Fond&Training [1 Feb 2015 – 12 Feb 2015]

Address: București, Sector 1,

Certified Ethical Hacker

EC-Council [23 Dec 2022 – 23 Dec 2023]

CompTIA Cybersecurity Analyst (CySA+)

CompTIA [20 Jul 2023 – Current]

Systems and Network Auditor Certification (GSNA)

GIAC [17 Jan 2024 – 31 Jan 2027]

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

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

DRIVING LICENCE

Driving Licence: B

PROJECTS

Project/Grants director Director of GEX 2017 - Nr contract 19/25.09.2017, Total buget: 5.000 EURO (https://upb.ro/wp-content/uploads/2017/11/Rezultate_Finale_UPB-GEX2017-final.pdf)

Director from UPB side of "Innovative hub for advanced cyber security technologies (ATLAS)" - (Nr. 17PCCDI/2018 - UEFISCDI), Total buget: 1.050.000 EURO (<https://www.security-hub.ro/>)

Director from UPB side of "Secure channel between I/O devices and CPU for extended software security (SABOTORE)" - (Nr. 30PTE/2020 - UEFISCDI), Buget total: 220.000 EURO (<https://www.sabotore.ro>)

ORGANISATIONAL SKILLS

Organisational skills As coordinator of various teams ranging from 2 to 20 people I can say that I am very well organised, with a touch of optimism regarding any encounters.

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills My main responsibility is teaching, hence I think communication is very important and I have always tried to improve mine.

JOB-RELATED SKILLS

Job-related skills

I always wanted to be with my foot in two worlds: academia and industry. For the first one I obtained multiple Cisco/Microsoft/Fortinet/CompTIA/EC-COUNCIL certification and took part (as a student/instructor) in international contests (NAG 2009). My research work has been published at top tier academia conferences such as ACM CCS and Usenix Security. Moreover, I had the pleasure of working with a team who discovered 4 vulnerabilities applicable to Apple's operating systems (both mobile and watch), work which has been granted 4 CVEs (CVE-2016-4686, CVE-2016-4664, CVE-2016-4665, CVE-2015-7001).

PUBLISHED ARTICLES (SELECTION)

Published articles (selection):

1. iOracle: Automated Evaluation of Access Control Policies in iOS, Luke Deshotels (North Carolina State University); Razvan Deaconescu, Costin Carabas, Iulia Manda (University POLITEHNICA of Bucharest); William Enck (North Carolina State University); Mihai Chiroiu (University POLITEHNICA of Bucharest); Ninghui Li (Purdue University); and Ahmad-Reza Sadeghi (Technische Universitat Darmstadt), in The 13th ACM ASIA Conference on Information, Computer and Communications Security 2018, Songdo, Incheon, Korea
2. Florin-Alexandru Stancu ; Mihai CHIROIU ; Razvan Rughinis. "SecCollab - Improving Confidentiality for Existing Cloud-Based Collaborative Editors". In 21st International Conference on Control Systems and Computer Science (IEEE), May 2017.
3. Luke Deshotels, Razvan Deaconescu, Mihai CHIROIU, Lucas Davi, William Enck and Ahmad-Reza Sadeghi, "SandScout: Automatic Detection of Flaws in iOS Sandbox Profiles". In ACM Conference on Computer and Communications Security, October 2016
4. M Senftleben, A Barroso, M BUCICOIU, M Hollick, S Katzenbeisser, E Tews, "On the Privacy and Performance of Mobile Anonymous Microblogging". In IEEE Transactions on Information Forensics and Security, July 2016 (IEEE)
5. BUCICOIU, M., DAVI, L., DEACONESCU, R., AND SADEGHI, A.-R. "XiOS: Extended Application Sandboxing on iOS". In 10th ACM Symposium on Information, Computer and Communications Security, April 2015 (ACM Digital Library) – Best Paper Award
6. BRASSER, F., BUCICOIU, M., AND SADEGHI, A.-R. Swap and Play: Live Updating Hypervisors and Its Application to Xen. In The ACM Cloud Computing Security Workshop (2014), (ACM Digital Library)
7. J Christensen, IM Anghel, R Taglang, M Chiroiu, R Sion. "DECAF: Automatic, Adaptive De-bloating and Hardening of COTS Firmware". 29th USENIX Security Symposium