
Education

- 2014 – on hold **PhD. Candidate**, *University POLITEHNICA of Bucharest*.
Faculty of Automatic Control and Computers
Area of study: Computer Architecture, Operating Systems, Networking
- part of nets.cs.pub.ro group
- 2012 – 2014 **Master Degree**, *University POLITEHNICA of Bucharest*.
Faculty of Automatic Control and Computers
Area of study: Advanced Network Security
thesis: *Compiler for Vector Processing with Frequency Scaling at Instruction Level*
GPA: 9.86, Dissertation: 10 (maximum grade: 10)
- 2008 – 2012 **Bachelor Degree**, *University POLITEHNICA of Bucharest*.
Faculty of Automatic Control and Computers
Specialization: Computer Science and Engineering
Area of study: Compilers & Operating Systems
GPA: 9.55, Diploma: 10 (maximum grade: 10)

Work Experience

- present **Software Engineer Intern**, *Google, Zurich*.
- Search Infrastructure
- 2014 – 2017 **Teaching Assistant**, *University POLITEHNICA of Bucharest*.
- part of Computer Science & Engineering Department, [Systems group](#);
- designing laboratories/assignments for Introduction to Programming, Introduction to Linux, Operating Systems Internals, Operating Systems Design, Assembly Language and Compilers.
- 2014; 2015 **Research Intern**, *IBM Research, Zurich*.
Implemented a workload characterization framework (in C++) that analyzes memory access patterns in a hardware architecture agnostic manner. The framework was built on top of LLVM and was used to predict the optimal hardware resources needed to run dedicated applications.
- 2013 **Linux Kernel Developer Intern**, *Linux Foundation*.
Implemented various features in Ethtool for *igb driver*: support for private flags, receive side scaling (queues configuration, indirection table, irq configuration), etc.
- contributions were in the upstream version of Linux Kernel (aprox. 500loc)
- speaker at LinuxCon Europe 2013, Edinburgh
- 2012 **Research Intern**, *IXIA, Bucharest*.
Implemented a fuzz testing prototype for stateful protocols. Protocol state machine was described using the modeling language Promela, and its interpreter SPIN, allowing the automatic generation of stateful fuzzing scripts that were written in Python. The prototype was evaluated against Linphone, a multi-platform SIP client.
- 2011 **Linux Software Engineer Intern**, *IXIA, Bucharest*.
Maintained C/C++ code and resolved bugs related with PPP, L2TP and L2TPv3 network protocols.

Volunteer Experience

- 2009 – present **Member**, *Romanian Open Source Education (ROSEdu)*.
ROSEdu's mission is to initiate, support and develop education based on the values of Open Source
- I did: teaching, mentoring, fundraising, organizing events/workshops/internships, community building
2012 - 2015: President
2010 - 2012: Board Member
Numbers at the end of 2014 (only for that year):
- aprox. 500 students participated in our workshops/extracurricular courses/hackathons
- aprox. 17 workshops on various computer science topics
- raised the funding of aprox. 15.000 EUR

Specialities

- Operating Systems
- Computer Architecture
- Networking
- Education
- Kernel Programming
- Compilers
- Security
- Free Software

Programming Languages

- most experienced with C, C++, shell scripting
- some experience with Python, Java

Publications

- **LM. Vasilescu**, V. Olteanu, and C. Raiciu.
"Sharing CPUs via Endpoint Congestion Control."
In Proceedings of the Workshop on Kernel-Bypass Networks, pp. 31-36. ACM, 2017.
- A. Anghel, **LM. Vasilescu**, G. Mariani, R. Jongerius, and G. Dittmann.
"An instrumentation approach for hardware-agnostic software characterization."
International Journal of Parallel Programming 44, no. 5 (2016): 924-948.
- L. Petrica, **LM. Vasilescu**, A. Ion, and O. Radu.
"IxFIZZ: Integrated Functional and Fuzz Testing Framework based on Sulley and SPIN."
Science and Technology 18, no. 1 (2015): 54-68.

Achievements

- 2016 - N2Women Young Researcher Fellowship for SIGCOMM
- 2015 - Google Anita Borg Fellowship
- 2013 - GNOME Foundation Scholar in Outreach Program for Women
- 2013 - 2nd place at DefCamp: International Hacking & Information Security Conference
 - Capture The Flag competition - 400 participants
 - member of NOPulence team
- 2012 - 1st place at DefCamp: International Hacking & Information Security Conference
 - Capture The Flag competition - 250 participants
 - member of Hexcellents team