

Oana Niculaescu

Curriculum Vitae

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Education

- Aug 2015 - **PhD candidate, Computer Science**, *University of Massachusetts Boston*, Boston, Massachusetts, United States.
Database Security and Differential Privacy
- Oct 2014 - **ME in Computer Engineering**, *Faculty of Automatic Control and Computer Science*,
June 2015 *Politehnica Univesity of Bucharest*, Bucharest, Romania, Networks Security.
- Oct 2010 - **Bachelor's degree in Computer Engineering**, *Faculty of Automatic Control and*
July 2014 *Computer Science, Politehnica Univesity of Bucharest*, Bucharest, Romania.

Publications - Conferences

- 22-24 **Differentially-Private Big Data Analytics for High-Speed Research Network**
March, **Traffic Measurement**, *Best Poster Award at CODASPY 2017 : Conference on Data and*
2017 *Application Security and Privacy*, Scottsdale, Arizona.
- 16-20 **RIPE 71 Meeting**, *Access and poverty in the United States, Using open data to understand*
November, *network performance through a socio-economic lens*, 16-20 November 2015, Bucharest.
2015 Romania
- September **Graphical Packet Generator - A solution for automatic discovery of the network**
2014 **topology and packet generation**, *11-13 Sept. 2014*, Chisinau, Moldova.

Projects and Professional Experience

- May 2015 - **Measurement Lab**, *Outreachy Intern*.
- Aug 2015 Analyzed the data provided by the M-Lab platform and the Census bureau to provide insight in the internet connectivity and internet availability for the USA's population. The results of the study were presented in RIPE71 Meeting that took place in November 2015.
- September **Luxoft Romania**, *Software Developer*.
- 2014 - June Developer for a new routing platform, implementing Cisco/Juniper enhancements on Lenovo/IBM x86 routers. Implemented vlan add and strip-vlan functionality for x86 routers. Used computer networks knowledge and C technology in development.
- June 2014 - **Jinny Software Romania**, *Software Developer*.
- September One of the developers for the Advertisement Engine, Application Server and the Emergency service
2014 that the company provides (Value Added Services for mobile companies). I maintaine and developed the Advertisement Engine using C, the Application Server using Java and the Emergency service plugin using Python.
- June 2013 - **ADVAHOO Business Solutions**, *Software Developer*.
- June 2014 One of the main developers for the mobile solution offered by the company for bank operations. Implemented the user interface of the application using HTML, CSS and JavaScript for events and the client side logic. I also worked on the back-end solution offered to the banks, I have developed a module for automatic report generation using J2EE and Java.
- Aug 2012 - **ESA Summer of Code**, *BRLCAD Project*.
- Oct 2012 Worked on integrating a physics engine inside the CAD project, the engine permitted the application to simulate CAD objects in movement (falling, bouncing).

Grants/Scholarships

- Aug 2015 - **University of Massachusetts Boston**, *Head of the Department scholarship.*
June 2016
- September 2014 **Google Travel and Conference Grants EMEA**, *INFORMATIK 2014: Big Data - Komplexitat meistern*, 22-27 Sept. 2014, Stuttgart. Germany

Other projects

- March - **Google IgniteCS Mentor**, *Part of a team of mentors who worked closely with high school students to teach them programming concepts as well as design and electrical engineering concepts. My role was in teaching the basis of programming in Python (build in types of data, control flow, collections and I/O).*, Boston, Massachusetts.
- July 2017
- February 2016 **Northeast Collegiate Cyber Defense Competition**, *First place in Qualifying round of NECCDC. My role was to secure and mitigate attacks that were coming on the Database and Web servers as well as one Cisco Router. I deployed techniques that ranged from automatic checking for untrusted/unknown processes on a system, to configuring Linux and Cisco firewalls and breaching security holes.*, Boston, Massachusetts.
- November 2014 **Learn IT, Girl!**, *Mentored a woman learning to code for the first time. She decided to learn how to develop a an online interface for databases. She wanted to learn HTML, CSS, JavaScript and how to connect it all with a database. My role was to guide her and find appropriate study material for her to get her started on her project as well as offer help with debugging and understanding different design and programming concepts.*, Boston, Massachusetts.
- July 2014 **Google Android Camp**, *Took part in Google's Android Camp, an intensive training program on Android development held by Google's best Android engineers. At the end of the program, developed in a team an Android application that lets the users share the things they do not need anymore in an open market. Gained experience with Android fundamentals (life-cycles, Android architecture), graphics and multi-threading, Google cloud service, Git, London, United Kingdom.*

Computer skills

- Programming Java, C, JavaScript, Python, Pandas
Languages
- Networking Networking administration, Network Pro-
tocols
- Versioning Git - <https://github.com/elf11>

Languages

- Romanian Native or bilingual proficiency
English Full professional proficiency

Interests

- Data Analytics, Security, Machine Learning, Computer Networks