

Oana Niculaescu

Curriculum Vitae

100 William T Morrissey Blvd
Boston, Massachusetts
☎ +1 857 206 9852

✉ oana.niculaescu@yahoo.com / oana.niculaescu@gmail.com
blog: <http://elf11.github.io/>

Education

- August 2015 - present **PhD candidate, Computer Science**, *University of Massachusetts Boston*, Boston, Massachusetts, United States.
Database Security and Differential Privacy
- October 2010 - July 2014 **Bachelor's degree in Computer Engineering**, *Faculty of Automatic Control and Computer Science, Politehnica University of Bucharest*, Bucharest, Romania.

Publications - Conferences

- 22-24 March, 2017 **Differentially-Private Big Data Analytics for High-Speed Research Network Traffic Measurement**, *Best Poster Award at CODASPY 2017 : Conference on Data and Application Security and Privacy*, Scottsdale, Arizona.
- 16-20 November, 2015 **RIPE 71 Meeting**, *Access and poverty in the United States, Using open data to understand network performance through a socio-economic lens*, 16-20 November 2015, Bucharest, Romania.
- September 2014 **Graphical Packet Generator - A solution for automatic discovery of the network 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 2014 - **Luxoft Romania**, *Software Developer*.
- June 2014 - **Jinny Software Romania**, *Software Developer*.
- September 2014 One of the developers for the Advertisement Engine, Application Server and the Emergency service that the company provides (Value Added Services for mobile companies). I maintained 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 Developed a mobile and desktop solution for bank operations. Implemented the user interface of the mobile solution and the client side logic. Developed a module for generating automated bank reports for the desktop solutions. Used J2EE, Java, JavaScript.
- August 2012 - **ESA Summer of Code**, *BRLCAD Project*.
- October 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

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

Other projects

- March - July 2017 **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 basics of programming in Python (build in types of data, control flow, collections and I/O)., Boston, Massachusetts.*
- 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!**, *I have been a mentor during the first edition of "Learn IT, Girl!", a program aimed to teach women how to code by pairing them with an experienced mentor. I have helped my mentee to learn how to use GitHub, and how to achieve her goal of creating a mind-mapping online application with Ruby, JavaScript and HTML. My help consisted in walking her through tutorials, helping debug the application, and teaching her basic programming., Boston, Massachusetts.*

Computer skills

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

Languages

- Romanian Native or bilingual proficiency
- English Full professional proficiency

Interests

- Data Privacy, Data Analytics, Security, Machine Learning, Computer Networks