Andreea Lucau

Personal Information

Date of Birth	25 July 1986
Nationality	Romanian
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Work Experience

April 2013 – present **Software Engineer** at Amazon Data Services Ireland.

I worked in the Network System Engineers team on projects that aim to automate various parts of the network. I work in Python.

March 2010 – March 2013 **Senior Software Engineer** at IXIA Romania. (www.ixiacom.com)

I worked with layer 2-3 protocols implementations on a custom Linux platform used for simulating real-life networks. The purpose was to test high power routers and switches. I've worked on:

1. fixing bugs for DHCP(both client and server, IPv4 and IPv6) and add multithread support for DHCP
2. developping a IGMP client
3. implementing DCBX 802.1 Qaz standard
4. adding multihread support for FCoE client
5. designing a VEPA emulation and developping the code for the VDP protocol
6. migrating the FCoE forwarder emulation to a native fiber chanel encapsulation

I was responsible with scoping and writing functional specifications for my projects, taking into account customer's need. I've worked with the following architectures: Power PC, Intel i686, Intel x86-64, Octeon.

July 2009 – Feb 2010 **C Software Engineer** at Jinny Software (www.jinnysoftware.com)

I've worked on the server side of a web application destined to register and configure mobile advertising campaigns. Amongs my tasks were:

1. developing a task scheduling engine for processing database records
2. implementing database procedures
3. ensuring scalability and accuracy

I've worked with C, MySql and Apache.

July 2007 – Sep 2009 **C Software Engineer** at EvoSoftware

I've worked on image processing algorithms for scanned documents. I've developed algorithms for barcode detection, line removal and color recognition. I've worked with C++ and C#.

Personal Projects

GitHub   I've developed a small PGP encryption client, that was supposed to compress a file, search for public keys on a PGP server, download the key and use it to encrypt the file. I've used gnupg, gpgme, libz, curl. I've added management capabilities for the open-source VPN solution OpenVPN for my graduation project. Here is my GitHub page: GitHub.

Prizes, Awards, Certificates

2008   Cisco **CCNA** for module 1.

2004 3th place at National Physics Contest "Stefan Procopiu" Constanta

2002 3th place at National Physics Contest "Stefan Procopiu" Constanta

Education

Sep 2005 – June 2009   **"Politehnica" University of Bucharest**, Bucharest, Romania
Automation and Computer Science, Computer Science Dept.

I took the Systems Programming specialization in the 4th year. My graduation thesis added an auto-configuration and network management capabilities to a open-source VPN solution: OpenVPN.

Sep 2001 – Jun 2005   **"Dragos Voda" National College**, Campulung Moldovenesc - Informatics Class

Skills

Programming   C/C++ (POSIX programming, BSD sockets), Python, Bash, OOP

Networking   HTTP, FTP, RTP, SIP, TCP, UDP, IPv4/6, MPLS, Ethernet

Databases   MySQL, Oracle

Version Control   Perforce, svn, git

Operating Systems   GNU/Linux (Debian, Ubuntu), Windows

Languages   Romanian (mother tongue), English (very good), French (medium)

Dublin, Ireland, May 2014