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Ph.D. in Engineering Sciences
Cisco/HP authorized instructor



Andrii Salnikov

Curriculum Vitae

Professional Experience

Teaching

- 2013–to date **Assistance Lecturer**, *Computer Engineering department, faculty of Radiophysics, Electronics and Computer Systems, Taras Shevchenko National University of Kyiv.*
Educate students as computer science engineers, in the area of Networking, High Performance Computing and Security.
- 2011–to date **Instructor**, *MUK Training Center, ERC Training Center (since 2014), Kyiv.*
Executing work orders to deliver trainings for the following authorized courses: Enterprise System Linux Administration (H7091), Enterprise Linux Network Services (H7092), Linux Troubleshooting (U8531S), Docker (H0DS3S), Linux for UNIX Administrators (U2794), POSIX shell programming (H4322), HP-UX System and Network Administration (H3064S, H3065S) Accelerated HP Access Layer Network Technologies (00646263), Extreme Networks Associate (ENA), Extreme Networks Specialist (ENS).
- 2008–to date **Cisco Certified Academy Instructor**, *Cisco Networking Academy of Taras Shevchenko National University of Kyiv.*
Teaching a CCNA/CCNAS/Linux courses for students and instructors.

Vocational

- 2006–to date **Lead Project Engineer**, *Information and Computer Center of Taras Shevchenko National University of Kyiv.*
University HPC Cluster and Grid services DevOps, Development of software products for distributed computing.
- 2008–to date **Domain Specific IT Expert**, *Institute for Molecular Biology and Genetics of NAS of Ukraine, National Scientific Center for Medical and Biotechnical Researches of NAS of Ukraine, Kyiv.*
Linux HPC Clusters installation and maintenance. Developing methods and tools for computations of molecular dynamics, realistic models of neural networks and other dynamic systems on different distributed computing platforms.
- 2008–2009 **Senior Engineer**, *Bogolyubov Institute of Theoretical Physics of NAS of Ukraine, Kyiv.*
Linux HPC Cluster installation and maintenance including grid-services configuration.

Miscellaneous

- Dec 2012 **Linux HPC cluster installation and configuration**, *Pukhov Institute for Modelling in Energy Engineering, Kyiv.*
- Jan 2011 **Linux HPC cluster installation and configuration**, *Karpenko Physical-Mechanical Institute of NAS of Ukraine, Lviv.*
- Jan 2011 **Linux HPC cluster installation and configuration**, *Institute of Electron Physics of NAS of Ukraine, Uzhgorod.*
- Mar 2008 **Linux HPC cluster installation and configuration**, *Institute of Cell Biology and Genetics Engineering of NAS of Ukraine, Kyiv.*

Industry certifications

<http://manf.org.ua/certificates>

- Dec 29, 2008 **Cisco CCNA**, *Cisco ID. No. CSC011542124*.
Verification number: 398124167551FSXI
- Jan 26, 2009 **Cisco CCNA CCAI**, *Certification Number: 5709202CCNA*.
Academy Name: Taras Shevchenko University of Kyiv
- Oct 20, 2011 **Certified Cisco Networking Academy Instructor Trainer**.
CCNA Instructor Trainer
- Dec 07, 2011 **LPIC-1**, *LPI ID. No. LPI000245751*.
Verification code: bxyyb4wt48
- Dec 26, 2011 **Cisco CCNA Security**, *Cisco ID. No. CSC011542124*.
Verification number: 409035316405INCK
- Dec 28, 2011 **Novel Certified Linux Administrator**.
SUSE Linux Enterprise 11
- Dec 28, 2011 **Novel Data Center Technical Specialist**.
- Mar 13, 2012 **HP AIS. Network Infrastructure [2011]**, *HP Learner ID: PL71783895*.
- Apr 10, 2012 **HP Certified Instructor [2012]**, *HP Learner ID: PL71783895*.
- Dec 07, 2012 **Extreme Networks Associate-Switching (ENA)**, *Extreme Networks ID: 2815777*.

Education

- 2009–2012 **Postgraduate student in computer science**, *Radiophysics Faculty of Taras Shevchenko National University of Kyiv*.
Working on various problems of Virtual Organizations integration in grid environment, developing methods and corresponding software products. Ph.D. thesis: "Methods and tools for virtual organizations integration into the grid-infrastructures". Ph.D. degree (candidate of science) in Engineering Sciences from September 2014, speciality 05.13.05 – "computer systems and components".
- 2007–2009 **Master of applied physics**, *Radiophysics Faculty of Taras Shevchenko National University of Kyiv*.
Master studies in studies applied physics and different computer skills. Continuation of reasech in distriubuted computing. Master thesis: "Integrated environment to automate operations with huge amounts of data in grid"
- 2003–2007 **Bachelor of applied physics**, *Radiophysics Faculty of Taras Shevchenko National University of Kyiv*.
Studies includes, applied and theoretical physics, mathematical analysis, computer science. Speciality "Automation of Scientific Researches"
- 2000–2003 **Senior secondary education**, *Ukrainian Physical-Mathematical Lyceum of National Taras Schevchenko University of Kyiv*.
Studying in the Lyceum had developed my knowledge in the basics of Physics, Mathematics and Computer Science. Avarded with several diplomas in physics contests. Upon completion, awarded with a letter of commendation for particular strides in physics.
- 1992–2000 **Secondary education**, *Lyceum #15, Chernihiv*.
During the education I had been being annually awarded with school testimonial for excellent study results. Speciality "Physics and Mathematics". In 2000 I took the first place in the regional competition in physics and was invited to the Ukrainian Physical-Mathematical Lyceum.

Computer skills

Programming C/C++, EM64T ASM

Scripting Python, Perl, POSIX Shell, BASH, PHP, JavaScript

Markup HTML, CSS, XML, LaTeX, VHDL

Databases MySQL, SQLite, PostgreSQL, MS Access, NIS, LDAP, etc.

Technologies Parallel programming (MPI, OpenMP), Networking (Switching, Advanced Routing, WAN, Security, VPN), Virtualization (XEN, KVM, RHEV, LXC, LXD, Docker), Clustering (Pacemaker, GFS2), Grid (ARC, gLite), Cloud (Amazon EC2, OpenStack), etc

OS Linux, FreeBSD, HP-UX, MS Windows

Services Web (Apache, Nginx), E-mail (Exim, Sendmail, Postfix, DKIM, etc.), DNS (BIND, Unbound, etc.), Resource brockering (Torque PBS, PBS Pro, MAUI), Storage (iSCSI, FC, NFS, FTP, etc.), Networking (IPSec, DHCP, Quagga, PPTP, OpenVPN, etc.), etc

Main contributed projects

- PHP VOMS-Admin
<http://grid.org.ua/development/pva>
- Nordugrid ARC
<http://www.nordugrid.org>
- Rainbow ("ARC in the Cloud")
<http://grid.org.ua/development/rainbow>
- MolDynGrid Virtual Lab
<http://moldyngrid.org>
- Computing Cluster
<http://cluster.univ.kiev.ua/wiki>
- Ukrainian National Grid
<http://ung.in.ua>
- Linux administration courses
<http://netacad.kiev.ua>

Latest scholarly works

More info at [Scopus](#) and [Google Scholar](#)

- Boretskyi, O., Salnikov, A., Sliusar, I., Sudakov, O. and Boyko, Y., 2015, September. Rainbow framework: Running virtual machines on demand as a grid jobs. In Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS), 2015 IEEE 8th International Conference on (Vol. 2, pp. 972-976). IEEE.
- Salnikov, A., Vishnevsky, V. and Boretskyi, O., 2015. Platform as a service for interactive analysis of medical data. Mathematical Machines and Systems, (1), pp.53-64.
- Sudakov, O., Salnikov, A., Sliusar, I. and Boretskyi, O., 2014. Tools for biomedical data archiving in Ukrainian grid infrastructure. International Journal of Computing, 12(4), pp.308-315.
- Salnikov, A., Sudakov, O., Levchenko, R., Sliusar, I. and Savchenko, A., 2014. Interactive Environment for Massive Neuroscience Simulations in Grid. International Journal of Computing, 11(4), pp.367-374.

Latest conference talks

- NorduGrid 2017 conference and technical workshop in Tromsø, Norway, June 26-30, 2017, Talk: "Web-service for FPGA synthesis using ARC-powered grid infrastructure"
- NorduGrid 2016 conference and technical workshop in Kosice, Slovakia, June 2-3, 2016, Talk: "Molecular dynamics simulations in the MolDynGrid Virtual Laboratory by means of "ARC between Grid and Cloud"
- EGI Community Forum 2015 Conference, Bari, Italy, November 9-13, 2015, Talk: "Bioinformatics simulations by means of running VMs as a grid jobs in the MolDynGrid Virtual Lab"

Languages

Ukrainian **native language**

Russian **native language**

English **intermediate**

Interests

- HPC, Grid, Cloud and related technologies (hardware and software solutions)
- Modern scientific researches in physics
- Science fiction and fantasy literature/TVSeries
- Traveling abroad the country