

Personal Details:	name	Ivan Šećerov
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Summary:

Dedicated IT expert, with strong tendency to constantly improve his skills and knowledge through solving even the most demanding challenges.
Offering knowledge and experience of more than two decades work within IT field.

Education:

2015 (Oct.) -	PHD student, Geosciences, Department of geography, tourism and hotel management, Faculty of Sciences, University of Novi Sad.
2014 (Oct.) – 2015 (Oct.)	MSc of Geoinformatics, Department of geography, tourism and hotel management, Faculty of Sciences, University of Novi Sad. <i>MSc thesis title: System for climatological monitoring in Novi Sad urban area.</i>
2006 (Oct.) – 2013 (Sep.)	BSc of Geography, Department of geography, tourism and hotel management, Faculty of Sciences, University of Novi Sad. <i>BSc thesis title: e-Learning - IT solution for Climatology with meteorological bases course.</i>
2008 (Oct.) – 2009 (Jul.)	Structured programing in C programing language, Faculty of Technical Sciences, University of Novi Sad.
2008 (Oct.) – 2009 (Jul.)	CISCO Network Academy, Faculty of Technical Sciences, University of Novi Sad.
1996 (Oct.) – 2005 (Sep.)	Field geographer, Department of geography, tourism and hotel management, Faculty of Sciences, University of Novi Sad.

Qualifications:

CCNA - Cisco Certified Network Associate
score 987 / 1000
CISCO ID: 400224169223IKBF

Cambridge ESOL: First Certificate in English (FCE) (Upper intermediate, B2)

Current position:

2006 (Oct.) - ...	Computer Network Engineer, Faculty of Sciences, University of Novi Sad. - Virtualization - Interconnecting different platforms in unique network environment mainly based on CISCO, GNU Linux, Mac
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	<p>OS and Win. platforms.</p> <ul style="list-style-type: none"> - Designing, implementing and maintenance of: <ul style="list-style-type: none"> - multiple ip segments consisted of more than 150 client computers. - four professional and highly organized computer laboratories for educational purposes consisted of 64 computers. - GNU SuSE Linux server based solutions and maintenance of five professional servers. - network security monitoring and intrusion detection of all Department network equipment. - In charge of constant and flawless work of multiple public services such as web, email, ftp, vpn, mysql. - Coordinating, designing and developing server side and network communication solutions build for 27 urban climate meteorological stations. - IT support for multiple server climatological data distribution for Department of Climatology and Landscape Ecology (SZTE), University of Szeged, Hungary, related to Urban path IPA Cross-border Co-operation Programme. - Developing multiple servers applications based on C, PHP and BASH. - Designing, developing and building network based solution for fast and reliable system imaging of all 64 client computers across multiple laboratories. - Implementing Quality of Service - Network analysis - Team leader for designing and implementing Department IT solutions. - Consultant on project for Department premises structure cabling.
2016. - ...	Teaching Assistant on GIS software course, Department of geography, tourism and hotel management, Faculty of Sciences, University of Novi Sad

Professional Experience:

2005 (Sep.) – 2006 (Oct.)	<p>Network Administrator at Laboratory for Open Software, Computing and Control Department, Faculty of Technical Sciences, University of Novi Sad</p> <ul style="list-style-type: none"> - Maintaining: <ul style="list-style-type: none"> - computer based laboratory for IT educational purposes, consisted of 37 GNU Debian Linux based computers. - 2 GNU Debian Linux servers used for controlling laboratory.
1999 (Jul.) - 2005 (Avg.)	<p>Associate, Home computers, Novi Sad, Computer Service and Sales</p> <ul style="list-style-type: none"> - Computer engineering and sales support.
1998 (Sep.) - 1999 (Jun.)	Computer Repair and Support Officer, BNL Systems, Novi Sad

- Assembling, installation and configuration of pc computers.

prior to 1999

IT based free lance jobs

Clients/Projects:

2019 (Sept.) -

Greening the cities – Development and promotion of energy efficiency and sustainable urban environment in the cities of Croatia-Serbia cross-border region

- R&D Wireless sensor thermal confort network system (data loggers design and algorithm; server side core segment and multiple locations synchronization solution)
- R&D Thermal confort real-time calculation system
- Web platform development

2019 (May.) -

A network of networks to progress urban climate science

The project gathers 17 Institutes from 10 European countries who are active on urban climate monitoring to:

- exchange expertise on urban networks
- trigger joint research, projects and publications
- stimulate data exchanges to enable urban model and impact studies for multiple European cities

The project is financed by Research Foundation - Flanders (FWO) and will be active from 2019. to 2023.

2017 (Sep.) - 2019 (Oct.)

IPA Cross-border Co-operation Programme (HUSRB/1602/11/0097) conducted by University of Novi Sad, Department of Geography, Tourism and Hotel Management, University of Szeged, Department of Climatology and Landscape Ecology:
Monitoring, forecasting and development of online public early warning system for extreme precipitations and pluvial floods in urban areas in the Hungarian-Serbian cross-border – URBAN-Prex

- R&D Wireless sensor precipitation network system (data loggers design and algorithm; server side core segment and multiple locations synchronization solution)
- R&D Early warning urban precipitation flood system
- Web platform development

2017 (Aug.) - 2017 (Sep.)

Special Projects & Consulting
- consulting on multiple projects

2017 (Aug.) - 2017 (Sep.)

Packetfence installation
- case study of different packetfence installation issues

2017 (July.)

Network expertise and packetfence assistance
- troubleshoot network environment issues and set it up for packetfence

2017 (July.)

Fix problem with mupx and letsencrypt

- troubleshoot and fix pem certificate issue
- 2017 (July.) Pptp vpn troubleshooting and setup
 - troubleshoot protocol issues and place proper setup on CentOS vps
- 2017 (July.) Open VPN setup on Thecus NAS
 - modify Thecus os for the purposes of openvpn service
- 2017 (July.) Residential IP VPN setup
 - vpn residential gateway using Raspberry Pi/VPS
- 2017 (Jun.) Setup overlay network on Digital Ocean droplets
 - setup overlay network interconnecting kvm virtual machines
- 2017 (May.) Setup Linux OpenVswitch network
 - debug issues with current configuration and design new layout
- 2017 (May.) sotresearch.com
 - Troubleshooting Ubuntu server Wordpress issues
- 2017 (Mar.) Pix Software Benelux
 - Building network traffic filtering solution for dedicated linux server
- 2017 (Feb.) Pix Software Benelux
 - Correcting multiple issues with Citrix XEN solutions servers
- 2016 (Jan.) - 2016 (May.) Spacecodes Software Factory
 - Redesigning network infrastructure.
- 2015 (Dec.) - 2016 (Mar.) Reviewer of "Beginning of IT in Novi Sad in the context of general history of computer development" published by City Museum of Novi Sad.
- 2015 (May.) Exhibition at Science Festival - Once Upon a Byte - Small history of 8bit computers
 - In charge of preparing and staging old computers exhibition
- 2014 (Sep.) - ... TAHAL Group, Novi Sad branch.
 - Designing, developing and implementing LAN and WAN solutions, backbone network, local services, vpn implementation.
 - Activities based on prevention of incidents in IT network systems as well as security breaches and forensics.
- 2014 (Sep.) Exhibition at BalCCon2 hacker conference - Once Upon a Byte
 - In charge of preparing and staging old computers exhibition.
- 2014 (May.) Exhibition at Long Night Of Museums manifestation.
 - In charge of preparing and staging "Once Upon a Byte - New hardware on old machines" exhibition.
- 2013 (Feb.) - ... IPA Cross-border Co-operation Programme (ID HUSRB/1203/122/166) conducted by University of

- Szeged, Department of Climatology and Landscape Ecology and University of Novi Sad, Department of Geography, Tourism and Hotel Management:
Evaluations and public display of URBAN PATterns of Human thermal conditions - URBAN-PATH.
- Development of wireless sensor network system:
 - secure and reliable communication module used for transferring data between meteorological stations and servers.
 - reliable algorithm for climatological data transfer.
 - complete server based solution for data collection, and reliable distribution between multiple local and international servers.
 - complete server based solution for reliable monitoring of 28 meteorological stations, as well data distribution between servers.
- 2013 (May.) Exhibition at Long Night Of Museums manifestation.
- In charge of preparing and staging "Once Upon a Byte - FPS Edition" exhibition.
- 2013 (Jun.) - ... Spacecodes Software Factory.
- Designing, developing and implementing LAN solution.
- Active consultancy on network security.
- 2012 (May.) Exhibition at Long Night Of Museums manifestation.
- In charge of preparing and staging "Once Upon a Byte".
- 2011 (Jan.) - ... Founding of Once Upon A Byte, society for old computers preservation and maintenance.
- 2010 (Feb.) - 2013 (Jul.) TEMPUS project „Modernization of Post-Graduate Studies in Chemistry and Chemistry related Programes”.
- Designing and developing computer based laboratory for educational purposes.
- 2009 (Mar.) - ... Studio Lazarus, Kac.
- Designing, developing and implementing LAN solution.
- IT support.
- 2009 (Jul.) Faculty of Sciences, University of Novi Sad.
- Backup and support management during network reconstruction.
- 2008 (May.) - 2012 (Nov.) Lantzis – Markovic packaging materials, Novi Sad.
- Designing network infrastructure through multiple locations.
- IT support network related issues.
- Network security and intrusion detection.
- 2005 (May.) - 2008 (May.) Voivodinian Academy of Sciences and Arts, Novi Sad.
- Reconstruction of network solutions.
- IT support for network related issues.

Personal skills and competences:

script languages	bash, php
programing languages	C, sql (mysql)

macro languages	html (css)
operating systems	UNIX -GNU Linux, DOS and WINDOWS (98, NT, 2000, XP, 7, 8)
application level servers	apache, nginx, postfix, vsftp, tftp, samba, mysql, ISC dhcp, net-snmp, syslog, radius, dial-in, bind, ppp/pptp
network protocols:	
wan	ppp, pptp, x.25, frame relay, isdn, atm, dsl
lan/link layer	ethernet 802.3, 802,3u, 802,3z, 802.11x, 802.3ad, stp, vtp, cdp
routing	rip, igrp, ospf, eigrp
others	bootp, dhcp, snmp, smb, cifs, mysql, http, ssl, tls, smtp, pop3, imap, syslog, dns, Netflow
system monitoring	nagios
virtualization	Xen

GNU Linux operating systems development - implementation of network protocols and network services with strong accent for security and optimization.

foreign languages	Serbian: Native or bilingual proficiency English: Upper intermediate, B2 Cambridge ESOL: First Certificate in English (FCE) (Upper intermediate, B2) French: limited working proficiency
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Co-founder of Once Upon A Byte, society for old computers preservation and maintenance.

Publications:

Use of R Programme Language for Drought Monitoring in Vojvodina

AIIT 2019, International conference on applied Internet and information technologies

DEVELOPMENT OF ADAPTATION SYSTEM TO PREVENT CONSEQUENCES OF EXTREME PRECIPITATIONS AND PLUVIAL FLOODS IN CENTRAL EUROPEAN CITIES

URBAN-PREX Final publication, 2019

Quantification of temporal changes of urban heat island intensity and cooling and heating rates in different local climate zones of mid-sized central European city (Tromp Foundation Travel Award)

EMS Annual Meeting Abstracts, Vol. 16, EMS2019-295, 2019

Progressing urban climate research using a high-density monitoring network system

Ivan B. Šećerov, Stevan M. Savić, Dragan D. Milošević, Daniela M. Arsenović, Dragan M. Dolinaj, Srđan B. Popov

Environmental Monitoring And Assessment, (2019) 191:89
<https://doi.org/10.1007/s10661-019-7210-0>

Environmental Monitoring Systems: Review and Future Development

Ivan Šećerov, Dragan Dolinaj, Dragoslav Pavić, Dragan Milošević, Stevan Savić, Srđan Popov, Žarko Živanov

Wireless Engineering and Technology, Vol.10 No.01(2019), Article ID:89268,18 pages

<https://doi.org/10.4236/wet.2019.101001>

Heat wave risk assessment and mapping in urban areas: Case study for a mid-sized Central European city, Novi Sad (Serbia)

Stevan Savić, Vladimir Marković, Ivan Šećerov, Dragoslav Pavić, Daniela Arsenović, Dragan Milošević, Dragan Dolinaj, Imre Nagy, Milana Pantelić

Natural Hazards, Journal of the International Society for the Prevention and Mitigation of Natural Hazards, ISSN: 0921-030X (Print) 1573-0840 (Online)

<https://doi.org/10.1007/s11069-017-3160-4>

URBAN CLIMATE ISSUES IN COMPLEX URBANIZED ENVIRONMENTS: A REVIEW OF THE LITERATURE FOR NOVI SAD (SERBIA)

Stevan Savić, Dragan Milošević, Daniela Arsenović, Ivan Šećerov

ACTA CLIMATOLOGICA ET CHOROLOGICA, Universitatis Szegediensis, Tomus 49-50, 2016, 63-80

Outdoor human thermal comfort in local climate zones of Novi Sad (Serbia) during heat wave period

Dragan Milošević, Stevan Savić, Vladimir Marković, Daniela Arsenović, Ivan Šećerov

Hungarian Geographical Bulletin 65 2016 (2), 129–13

<https://doi.org/10.15201/hungeobull.65.2.4>

Development of an automated urban climate monitoring system in Novi Sad (Serbia)

Ivan Šećerov, Stevan Savić, Dragan Milošević, Ivana V. Bajšanski

Geographica Pannonica 19(4):174-183, December 2015

Organizations:

CLIMATOLOGY AND HYDROLOGY RESEARCH CENTRE
Associated member, from January 2017

Climatology and Hydrology Research Centre (CHRC) was established at the initiative of the members of the Faculty of Sciences at the University of Novi Sad (Republic of Serbia).

Members of the Centre are engaged in numerous activities:

- Collection, processing and analysis of climatological, hydrological and geocological data as well as publication of the results in globally eminent scientific journals
- Cooperation with researchers, Institutions and companies whose activities are related to the climatological, hydrological and geocological phenomena
- Applying for the national and international projects in order to provide funding for research and procurement of modern scientific equipment. This activity is carried out independently or in cooperation with partner Institutions
- Provision of technical assistance to businesses and other organizations whose activities are directly or indirectly dependent on climatological, hydrological or geocological conditions in a particular area
- Organization of scientific conferences, seminars, workshops and lectures
- Publication of books, manuals, conference proceedings, etc.
- Organization of specialization and training for the members of the Centre and for other professionals
- Motivation of the students from Serbia and abroad to be part of the Centre activities

Interests:

SPORTS: (summer): indoor carpet skiing, inline skating, free climbing
(winter): snow skiing, ice skating, free climbing

References:

available on request