Sasa Katsuhiro

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PROFESSIONAL PROFILE

A skillful and highly organized infrastructure engineer with 10+ years' experience in customer-facing system integration roles within education, telecommunication, and international development industry.

Has significant expertise in the L2-L3 networking and the server configurations in the mixed-OS environment consisting of RedHat, CentOS, and Windows Server series as well as skills with writing some scripting languages such as Shell, VBA, Perl, and Python to automate daily operations and tasks, such as keep-alive monitoring, logs analysis, and data backup operations.

CORE SKILLS

- Windows/Linux server administration
- Active Directory/OpenLDAP design
- Firewall policy management
- Shell scripting/Python and C++ Coding
- Server virtualization (VMware)

- 3D Mechanical Design in Autodesk Fusion 360
- Network design and configuration
- Database administration (Oracle/SQL)
- Macro/VBA tools development
- Machine Learning for Realtime Object Detection

EDUCATION

NOTTINGHAM TRENT UNIVERSITY, BEng (Hons) in Electronic Engineering, June 2023 (Expected)

Honors:	International Undergraduate Scholarship (2019/20)
Awards:	GRAND CHALLENGE 2020 INDUSTRY AWARD (2019/20)
	Highest Overall Grade In Year 1 Electronic Engineering (2019/20)
	Engineering Research Opportunity Scholarship 2020 (Certificate in Professional Practice)
Activities:	Student Ambassador for the School of Science and Technology (2019/20)
	NTU Students for the Exploration and Development of Space
	CERT Student Mentor (2020/21)
Skills:	MATLAB / Fusion 360 / TensorFlow Object Detection API

COLORADO NORTHWESTERN COMMUNITY COLLEGE, Associate of Science, *summa cum laude,* May 2018

GPA:	4.0 / 4.0 (Overall)
Honors:	President's Academic Distinction List (Spring 2017, Fall 2017, Spring 2018)
	2018 All-Colorado Academic Team (Spring 2018)
	Phi Theta Kappa All-USA Academic Scholarship Award (Spring 2018)
	summa cum laude (Sprint 2018)
Activities:	Phi Theta Kappa Honor Society (Spring 2017 – Spring 2018)
	Phi Theta Kappa Honor Society Beta Epsilon Tau Chapter Vice President (Fall 2017 – Spring 2018)
	Colorado Northwestern Buddhist Club Founder and President (Spring 2017 – Spring 2018)

EXPERIENCE

NOTTINGHAM TRENT UNIVERSITY, Nottingham, UK (*Summer Placement)*   2020 – 2020

Projects:	The aim of the project is to develop a real-time object detector for major electronic components on circuit boards, trained by deep machine learning techniques based on the Convolutional Neural Network. Detection accuracy of 100% was achieved by webcam inference and training accuracy of 83.5% was achieved using sample images.
Products:	TensorFlow Object Detection API
Languages:	Python

J-DEVICES CORPORATION, Oita, Japan (*Software Developer)*   2018 – 2019

Projects:	- Developed a software to automate a table calculation to generate the financial statements.
	- Developed a software to calculate the material costs to generate the accounting balance sheets.
Products:	MS Access & Excel 2010 / Oracle 10g / SAP
Languages:	VBA / SQL / Python / NumPy / pandas

COLORADO NORTHWESTERN COMMUNITY COLLEGE, Colorado, U.S.A (*Resident Assistant)* 2017 – 2018

Projects:	- Planned and evaluated variety of events and programs in cooperation with other RAs.
	- Supervised a floor with 35 residents and advised them on personal and academic issues.
	- Provided and organized educational and cultural programs for both the floor and campus level.

HUMAN RESOCIA CO., LTD, Tokyo, Japan (*Systems Engineer*) 2013 – 2016

Projects:	- Designed and built the L2-L3 networks including Firewall and DNS servers for the data center migration.
	- Built the generation management system for the source codes at the game development company.
	- Troubleshot technical issues as a helpdesk to provide support for the programmers at the dev department.
Products:	CentOS / Bind 9 / Apache / Postgres / Subversion / Coverity / Juniper / Cisco
Languages:	Shell (csh, bash) / PowerShell / MS-DOS / VBS / Perl / AWK

JAPAN INTERNATIONAL COOPERATION AGENCY, St.Ann, Jamaica (*Computer Technician*) 2010 – 2013

Projects:	- Introduced a VDI environment for the pilot primary schools in Jamaica.
	- Started a new project to introduce the Linux desktop computers for the primary school students.
	- Wrote and implemented shell scripts to track the students' software usages to evaluate the project.
Products:	Raspbian / Raspberry Pi Model B / OLPC / Citrix XenDesktop & XenApp
Languages:	Perl / Shell (bash)

NTT WEST SHIKOKU CORPORATION, Kochi, Japan (*Network & Server Engineer*) 2007 – 2010

Projects:	- Designed and built L2-L3 networks including Firewall and DNS servers for the disaster prevention system.
	- Wrote shell scripts to manage the servers, networks, and data bases for the disaster prevention system.
	- Maintained for the printing and scanning devices at the banks, factories, and mobile phone shops.
Products:	Oracle RAC / Catalyst / Fortigate / NetApp / EMC / VMware vSphere & ESX / JP1 AJS2
Languages:	Shell (csh, bash) / C / PowerShell / MS-DOS / VBS / Perl / AWK

CERTIFICATION

Fusion 360 Essentials	2020
Certificate in Professional Practice (EROS Summer Placements)	2020
Linux Professional Institute Certification (Level 1 & 2)	2009
CompTIA Server+	2006