

## Roman Kanala

1, rue du Belvédère  
1203 Genève  
076 346 67 45  
[kanala@iprolink.ch](mailto:kanala@iprolink.ch)  
Swiss nationality

**Experienced systems administrator  
in academic, scientific and institutional  
work environments**

### Profile

- Programmer and systems administrator in various environments: Linux/Unix, Windows, Mac
- More than 20 years' experience in international and institutional environments including UNEP
- Proven track record of programming and systems administration
- Service-minded, solution-oriented, problem-solver applying foresight and intuition
- Effective team player

### Work experience

<b>Systems administrator, Institute of Environmental Sciences, University of Geneva</b> (part-time position) Systems administration on super computers for climate calculus : Silicon Graphics under IRIX, Sun x86_64 and Dalco x86_64 under Linux CentOS, 70 TB JBOD with SATA disks on SAS RAID cards, satellite services (ssh jumphost, tty access, syslog) under Debian, Nagios monitor	2008 – present
<b>Systems administrator, Earth Sciences, University of Geneva</b> (part time)	2020 – 2021
<b>Systems engineer, office of the Dean of Faculty of Sciences</b> (part time)	2019 – 2020
<b>Global Resource Information Database (GRID), University of Geneva &amp; United Nations Environment Programme (UNEP)</b> (part-time position)	2000 - 2010
<b>UNEP GRID - IT Systems Architect</b> Redesigned network, gigabite connection, firewall with 16 DMZs, redundant mail servers with deterministic and bayesian antispam, file server on JBOD SATA disks with SCSI interface, 50+ web and applications servers, partly virtualized on Xen under Debian	2006 - 2010
<b>UNEP GRID - Chief systems administrator</b> Added services: changed internet provider with IP renumbering, redesigned firewall with 4 DMZs, added antispam, TSM backup, Samba file sharing under AIX, Apache compiled with PHP as module or as CGI, hosting many web-interfaced databases and map servers for UNEP and other international organisations on Apache/PHP and Tomcat	2002 - 2006
<b>UNEP GRID - Systems administrator</b> Raised a small Digital OSF/1 Digital UNIX cluster into a complex AIX+Linux service provider network with all the services: firewall, DNS, mail, web, MySQL, Postgres and Oracle databases, redesigned network topology and security using iptables, tcpdump, ethereal, nmap, ngrep, firewall with DMZ	2000 - 2002

<b>Teacher, external consultant, Intersource, Geneva</b> (occasional) Taught HTML, JavaScript, Apache courses	2000 - 2003
<b>University Centre for Human Ecology &amp; Environmental Sciences (CUEH), University of Geneva</b> (part-time position) Unix systems administration, webmaster, information system analysis and acquisition, IBM RS/6000 servers for web and intensive computing Managed the migration of web server to Linux Debian in 1999, later on to a redundant server setup and finally to Oracle/Lenya. Developed Web interface on optimization programs in AMPL using Perl CGI. Linked energy systems optimization models with GIS interface using Perl scripts.	1994 - 2008
<b>Pre-Sales Service, IBM, Geneva</b> (part-time position) Sales of workstations and servers to the local sci-tech market	1993 - 1994
<b>Research assistant and scientific programmer, HEC, University of Geneva</b> (part-time position) Mathematical programming Optimization and economic equilibria computation programmed in Perl, AMPL, CPLEX, MINOS, OSL on an IBM RS/6000 under AIX	1992 - 1999
<b>Assistant, University Centre for Study of Energy Issues (CUEPE), University of Geneva</b> (full time) Energy research Programming mainframes, Macs & PCs	1986 - 1991

### Education and training

Programme management IPMA level D	2022
ITIL 4 level Foundation	2021
Doctorate of sciences, University of Geneva: energy consumer behaviour models	2018
Management competencies training, BNF Lausanne	2016
Post-graduate course in Energy, Swiss Federal Institute of Technology, Lausanne	1988
Degree in Nuclear Sciences Engineering, Czech Institute of Technology (ČVUT), Prague	1985

### Language skills

Proficiency level (C2) : French, English, Czech, Slovak  
Good knowledge (B2) : German, Hungarian, Russian

### Other skills and experiences

Teacher of mathematics and sociological surveys, HEG Geneva  
Sociological surveyor and evaluator, statistician  
Energy expert: technologies, energy systems, optimisation  
Energy modelling for road transportation, household appliances, consumer behaviour