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System Architect

EDUCATION

- **Studies :**

- 2010-2011 : Master 2 « Systems and Networks » at the Bordeaux I University of Talence with *honors*.
- 2009-2010 : Master 1 « Systems and Networks » at the UQAM (University of Québec at Montréal).
- 2006-2009 : Licence of Computer Science at the Bordeaux I University of Talence.
- 2005-2006 : CPGE (Preparatory Classes of High School) in MPSI class (Mathematics, Physics, Engineering Sciences) at the Michel Montaigne high school of Bordeaux.
- 2005 : Bachelor of Science (Mathematics specialty) with *honors*.

- **Languages :** english and spanish at school (read and written).

WORK EXPERIENCE

- Since 2022 : system architect at « **Orange Business Services** » : design and implement robust, scalable and efficient architectures, while meeting performance, security, maintenance and interoperability requirements.
 - Develop detailed implementation plans for proposed architectures, taking into account dependencies, risks and costs.
 - Work closely with development and infrastructure teams to ensure that proposed architectures are feasible and compliant with standards.
 - Participate in the identification and evaluation of new technologies and solutions to enhance existing architectures and meet future needs.
 - Developing migration strategies for existing systems to ensure that proposed architectures can be implemented seamlessly and efficiently.
- 2018 to 2022 : security and system engineer at « **Orange Applications for Business** » : engineering (Build) and production (Run) activities in the construction and MCO of Web and IVR (Interactive Voice Response) service platforms with high availability and safety constraints.
 - Design and architecture of new Web and IVR (Interactive Voice Response) platforms.
 - Monitoring production phases (delivery, level 3 support of operating teams).
 - Industrialization and automation of delivery, supervision and operation processes.
 - Management of the support chain.
 - Provider management (DELL, IBM, Telisma, FIA, Voxygen, ...).
 - Availability and QoS management.
 - Problem management (in ITIL sense).
 - Crisis management.

- Capacity management.
 - Continuity management (PCA).
 - Security management: definition and monitoring of the authorization policy, management of security patch deployments, treatment of security events, updating of security tools and procedures, monitoring of audits.
 - Production of reporting and animation of delivery journals.
 - Coordination of internal and external actors involved in the changes.
 - Check for compliance with software quality requirements.
 - Validation of technical solutions (evolution projects, technical projects).
 - System integration expertise on the build.
- 2015 to 2018 : security and system engineer at « **Consulting & Technical Support** » (on behalf of « **Orange Applications for Business** ») : engineering (Build) and production (Run) activities in the construction and MCO of Web and IVR (Interactive Voice Response) service platforms with high availability and safety constraints.
 - Design and architecture of new Web and IVR (Interactive Voice Response) platforms.
 - Platforms migration.
 - Industrialization of exploitation and supervision processes.
 - Production phases (delivery, level 3 support for exploitation teams).
 - Capacity Management.
- 2012 to 2015 : network and systems engineer at « **Consulting & Technical Support** » (on behalf of « **Orange Applications for Business** ») :
 - Supervision and exploitation hardware/system/software of Linux servers hosting web services (JBoss, Apache/Tomcat), voice services (IVR), SMS/+SMS/MMS and NFC services.
 - Client support.
 - Applications deployment.
 - Intervention in datacenter.
 - Writing operating procedures.
 - On-call duty.
- October 2011 to September 2012 : network, systems and security engineer at « **SOGETI France** » (on behalf of « **France Télécom** ») :
 - Supervision and exploitation Level 1 and 2 of Unix and Windows servers of production and development.
 - Supervision and exploitation of backups (Netbackup and Avamar).
 - Environment creation (system and software setup following a specification file system).
 - Development of multi-OS scripts to automate tasks for administrators.
- April to September 2011 : internship at « **THALES Systèmes Aéroportés** » :
 - Ensure reliability, maintainability, availability and safety of a Rafale-type avionics platform in a heterogeneous environment. The avionics platform consisted of 2 switches, 2 Windows XP SP2 machines (pilot and co-pilot viewing), 2 Ubuntu Linux machines (Nagios server and administration), a centralized data storage (NAS) server, a data processing computer, a PN5 radar processing computer, a cluster consisting of a Mac Bi-G5 and 8 PlayStation 3 (signal processing). This platform is composed of many machines and equipment of various architectures (Intel, PowerPC, ARM), different operating systems (Mac OS X, Linux Ubuntu, Fedora, Yellow Dog, Windows XP SP2), which share a heterogeneous network (Ethernet, VME, SCI).
 - Study of operating systems ARINC653 applied to the management of radar antenna.

SKILLS

- **Systems** : Unix (Mac OS X, Linux Red Hat and Debian, AIX, Solaris, HP-UX), virtualized systems (VMware ESX, area Solaris, AIX PowerVM, HPVM and vPars), embedded and real-time systems.
- **Languages** : Python, Perl, Shell Script.
- **Networks** :
 - Wifi, WiMax, Bluetooth, ZigBee, IP mobile, WAP.
 - ATM, MPLS, TCP/IP, ICMP, HTTP, FTP, CFT, Telnet, SSH, LAN, WLAN, VLAN, VPN, Ethernet, DNS, DHCP, NAT, Firewall, ACL, NIS, LDAP, NFS, SAMBA, SNMP.
- **Security** : iptables, port knocking, nmap, netstat, ipsec, openswan, kerberos, sssd, wireshark, tcpdump, dsniff, ARP spoofing, scapy, hping2, honeypot, snort, suricata, ossec, prelude (SIEM).
- **Applications** : backup (Avamar, Netbackup), supervision (Nagios, Xymon), configuration management (Puppet), Ansible et AWX, applications servers (JBoss, Apache/Tomcat), high availability clusters (heartbeat, corosync/pacemaker, keepalived), load balancer (IPVS, LVS, HaProxy, OpenSIPs), DB (MySQL, MariaDB, Oracle), ActiveMQ, ELK (Elasticsearch, Logstash, Kibana) docker, kubernetes, terraform.

ADDITIONAL INFORMATION

- Various sports : mountain bike, swimming, scuba diving, snowboarding, squash, pala.
- Music : trumpet, drums.
- Driver's licence.