Yann Hauquin

System Architect

Orange Business · since 2022

Critical Systems · Cloud Native · Artificial Intelligence

Design of AI-augmented CPaaS platforms to transform customer experience.

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French nationality · 38 years old

WORK EXPERIENCE

System Architect

2022 → Present

Orange Business Services

Design and implement robust, scalable and efficient architectures, while meeting performance, security, maintenance and interoperability requirements within a SAFe organization framework.

- Develop detailed implementation plans for proposed architectures (dependencies, risks, costs)
- Work closely with development and infrastructure teams to ensure feasibility and standards compliance
- Identify and evaluate new technologies to enhance existing architectures and meet future needs
- Develop migration strategies for existing systems
- Design of next-generation IVR CPaaS (Communications Platform as a Service) platforms interconnected with multi-LLM AI orchestrators, aimed at enriching and personalizing customer experience at scale

Senior System & Security Engineer

2018 → 2022

Orange Applications for Business

Build & Run engineering activities for Web and IVR service platforms with high availability and security constraints.

- Design and architecture of Web & IVR (Interactive Voice Response) platforms
- Industrialization and automation of delivery, supervision and operations processes
- Availability, QoS, capacity, continuity (BCP) and security management
- Provider management (DELL, IBM, Telisma, FIA, BTIP, Voxygen...)
- Problem and crisis management (ITIL framework)
- Technical solution validation and system integration expertise

Senior System & Security Engineer

2015 → 2018

Consulting & Technical Support · for Orange Applications for Business

- Architecture of new Web & IVR platforms
- Platform migrations
- Industrialization of operations and supervision processes
- Level 3 support
- Capacity management

Systems & Networks Engineer

2012 → 2015

Consulting & Technical Support · for Orange Applications for Business

- Hardware, system, and application monitoring/operations of Linux servers hosting web, voice (IVR), SMS/SMS+/MMS, and NFC services
- Customer support
- Application deployment to production environments
- Writing operational procedures and documentation
- On-call duty and datacenter interventions

Systems, Networks & Security Engineer

Oct. 2011 → Sep. 2012

SOGETI France · for France Télécom

- Level 1 & 2 supervision of Unix and Windows production and development servers
- Backup supervision (Netbackup, Avamar)
- Environment creation (system and software setup following a specification file)
- Development of multi-OS scripts to automate tasks for administrators

SKILLS

☁️ Cloud & DevOps

`Kubernetes` `Docker` `Terraform` `Ansible / AWX` `Saltstack` `Puppet`

🖥️ Systems

`Red Hat` `Debian` `Mac OS X` `AIX` `Solaris` `HP-UX` `VMware ESX` `PowerVM AIX` `HPVM / vPars` `Real-time embedded systems`

🌐 Networking

`ATM` `MPLS` `TCP/IP` `ICMP` `HTTP` `FTP` `Telnet` `SSH` `Ethernet` `LAN / WLAN` `VLAN` `VPN` `DNS` `DHCP` `NAT` `Firewall / ACL` `NIS / LDAP / NFS` `CFT` `SNMP`

🔒 Security

`iptables` `ipsec` `Openswan` `Kerberos` `SSSD` `Nmap` `Netstat` `Wireshark` `tcpdump` `Scapy` `hping2` `dsniff` `ARP spoofing` `Port knocking` `Honeypot` `Snort` `Suricata` `Ossec` `Prelude SIEM` `WAF`

⚡ High Availability

`Corosync / Pacemaker` `Heartbeat` `Keepalived` `HaProxy` `LVS / IPVS` `OpenSIPs`

💾 Databases & Middleware

`MySQL / MariaDB` `Oracle` `Apache Tomcat` `JBoss` `RabbitMQ`

📊 Monitoring & Backup

`Nagios` `Xymon` `ELK stack` `Prometheus` `Grafana` `Avamar` `Netbackup`

👨‍💻 Languages & Scripting

`Assembleur x86` `C / C++` `Java` `Ruby / Nit` `Python` `Perl` `Lisp` `Pascal` `Shell Script` `VBScript` `Maple` `LaTeX` `Lex / Yacc` `XHTML / CSS`

Engineering Intern – Avionics

Apr. → Sep. 2011

THALES Systèmes Aéroportés

- Operational dependability (reliability, maintainability, availability, and safety) of a Rafale-type avionics platform in a heterogeneous environment: architectures (Intel, PowerPC, ARM), operating systems (Mac OS X, Linux Ubuntu, Fedora, Yellow Dog, Windows XP SP2), and networks (Ethernet, VME, SCI). The platform included 2 switches, 2 Windows XP SP2 machines (pilot and co-pilot visualization), 2 Linux Ubuntu machines (Nagios server and administration), a NAS server, a data processing computer, a PN5 radar data processing computer, and a cluster composed of one Mac Bi-G5 and 8 PlayStation 3 consoles (signal processing).
- Study of ARINC653 operating systems for radar antenna management

EDUCATION

Master's – Systems & Networks 2011
Université Bordeaux I – Talence
With Honors

Master 1 – Systems & Networks 2010
UQAM – Université du Québec à Montréal

Bachelor's – Computer Science 2009
Université Bordeaux I – Talence
With Honors

DEUG – Computer Science 2008
Université Bordeaux I – Talence
With Honors

C2I – Computer & Internet Certificate 2007
Université Bordeaux I

CPGE – MPSI (Preparatory Classes – Mathematics, Physics, Engineering Sciences) 2006
Lycée Michel Montaigne – Bordeaux

Baccalauréat – Science, Mathematics specialty 2005
High School Diploma
With Honors

🔢 Parallel Computing

`Threads / POSIX` `MPD` `OpenMP` `MPI` `Cilk` `PVM` `Grid5000` `Infiniband`

LANGUAGES

🇫🇷 **French**
Native language

🇬🇧 **English**
Read, written – professional level

🇪🇸 **Spanish**
Read, written – school level

INTERESTS

🚵 **Sports:** Mountain bike · Swimming · Scuba diving · Snowboarding · Squash · Pala

🎵 **Music:** Trumpet · Drums

🚗 **Driving licence:** Full driving licence (category B)