

Pierre-Yves Kerembellec

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Resume

More than 30 years of experience applying process, problem-solving, and technical skills to improve software, network, and platforms efficiency. Designed, developed, and implemented technical infrastructures that led to highly improved performance. A passionate and highly technical individual who integrates and interacts nicely with others within development and infrastructure teams.

Work Experience

> F5 Networks – Senior Principal Services Architect

Mar. 2023 – Current

- Tasked with enhancing the observability of F5's ingress network (AS3528, ~17Tb/s of external connectivity, 32 pops worldwide, 100s of network devices), around a company-grown development called Panoptic (providing enhanced LG-like tools, but also behavioral anomalies detection, gathering configurations, states & statistics over NetConf ("à-la-SuzieQ"), syslog and NetFlow at scale).
- Responsible for designing and bringing-up a new "unified vpn" solution to solve the diversity of access after several companies acquisitions over the last 5 years.
- Part of an architects team providing SDC (Secure Delivery Cloud) BU technical consultancy on various topics (the most recent being a scalable virtual machine orchestrator to handle all F5 workloads at scale on next-gen hardware).

> Dailymotion – Distinguished Engineer

Oct. 2006 – Mar. 2013

- Responsible for design & operations of Dailymotion's "video workflow" backend (from publication to delivery, 2nd largest video portal in the world).
- Technical design & implementation of Dailymotion's core softwares: XUpload/TCPSplice (on-demand and live videos upload and qualification), Lumberjack (advanced streaming video delivery server), CSD (time series large scale accounting server), CDN Director (applicative streaming load-balancer), ...
- System & network design around CLOS network architectures, bgp2host, datacenter network automation.
- Acting as a company-wide technical consultant for projects technical validation.

> Troisième Sens – Founder & CTO

Jan. 2003 – Sep. 2006

- Definition of Troisième Sens technical strategy (a French RichMedia events company).
- Management of the internal and external development teams.
- Design, implementation, and day-to-day supervision of the company RichMedia platform (financial and corporate events for CAC40 clients like Altran, Scor, France Telecom, Essilor, ...).
- Technical design & implementation of complete websites revamping for Radio France (first French radio group, sp. France Culture and the France Bleu portal).
- Technical design & implementation of "Librarian", a multimedia archiving system for the Sanofi-Aventis pharmaceutical group (LAMP, Flash streaming).

> Genesys Conferencing – Head of R&D

Sep. 2000 – Dec. 2002

- Head of the R&D department at Genesys Conferencing (French first virtual conference company).
- Project lead for the Genesys Event Manager (GEM, RichMedia events generator in SaaS mode). Management of an 8-developers team based in Paris, Toronto and Montpellier.
- Design & implementation of the company RichMedia events platform. Responsible for platform and network architecture (high-speed access, failures resiliency, remote mobile connectivity). Technical expertise in pre-sales projects. Support on the Video'n Web application (RichMedia events generator).
- External consulting: specification and deployment of the Broadvision software for the Muzigzag project (online music store for the LVMH group).

> France Telecom/VTCOM – Head of Technical Research

Nov. 1995 – Aug. 2000

- Head of Unix, systems and network research at France Telecom/VTCOM (first Internet hosting platform in France): redundant system & network architectures, local & global (multi-sites) load-balancing implementations, secure websites, high-speed firewalling. Website hosting for Paris-Dakar, Tour de France 99 (biggest online event at the time), Football Cup 98, France Television.
- Design and implementation of France Telecom Internet hosting platform (Linux, Solaris and Windows NT environments). Management of a 15-IT administrators team. Sizing and provisioning of network accesses and servers, design of network topologies and architectures. Consulting on highly technical architectures such as an SMS messaging system for Orange, a mail platform (VoilaMail / MinitelNet), and an online payment system (Télécommerce).
- Design and implementation of the first version (up to 100,000 subscribers) of the French ISP Wanadoo (FreeBSD environment): definition and development of specific system and network bricks (contextual RADIUS servers, HTTP/POP3 cache proxies, dynamic firewalls). Management of a 5-developers team.

> Solutions Vocales – Systems & Network Engineer

Oct. 1993 – Oct. 1995

- Head of development for the Nynex “Yellow Pages” Internet directory: specification and design of the technical architecture, development of the human interface, design of a fast and efficient “sparse” database (20 millions entries, 5 people team).
- Part of the qualification team for the first French DOCSIS network experimentation (CyberCable/Noos).
- System and network developments on the company Interactive Voice Response (IVR) system D3A (SCO Unix, Dialogic boards).
- Websites hosting for France3 (French TV channel) and Tribun, in Solaris/Netscape environments.

> Conception Télématique et Languages (CTL) – Network Engineer

1990 – Oct. 1992

- Maintenance of and ISDN-based transfer system (SCO Unix environment, developed during the last internship before obtaining a master degree).
- Design and development of Vidéotex (French Minitel) applications for Education Nationale (French ministry of Education) and Téléfleurs (online flower shop).
- Miscellaneous projects through ISEP Junior Enterprise (junior consultancy division within ISEP).

Technical skills

- Network hardware: Juniper, Cisco, Arista, Dell, H3C.
- Network protocols: BGP, OSPF, TCP/UDP/IP, DNS, DHCP, HTTP.
- CM/Automation: Ansible, Salt, Jinja.
- Programming languages: Go, C/C++, PHP, Python, Javascript, Java.
- Web technologies: Apache, NGinx, HTML5, CSS, REST, WebSockets.
- Data management: MySQL, MongoDB, ClickHouse, Redis, ElasticSearch.

General skills

- Adaptability: I'm comfortable switching languages and learning new technologies.
- Communication: I always share important information with team-members.
- Time management: I enjoy working in a fast-paced environment, with tight deadlines and great challenges.

Education

1987 – 1992

- Master degree in electronics at Institut Supérieur d'Electronique de Paris (ISEP), specialized in network engineering.

1987

- French high school diploma in Science and Technology.

Hobbies

Music, robotics (UAV, autonomous systems), embedded systems (Raspberry Pi, CubieBoard, ...), travels (Asia, North & South Americas).