Bernard Cafarelli

Associate Manager, Software Engineering

Master's Degree in Computer Engineering "Ingénieur de spécialité de l'École des Mines de Paris"

Professional experience

September 2021–current	associate manager, software engineering, Red Hat, Paris.		
October 2020–September 2021	principal software engineer, Red Hat, Paris.		
May 2016–September 2020	senior software engineer , <i>Red Hat</i> , Paris. Member of the Network team. Development of networking features in OpenStack Neutron, Octavia and Service Function Chaining		
March 2007–current	developer , <i>Gentoo foundation</i> . Package maintainer for NX remote server, GNUstep, chromium web browser, llvm/clang, FTP servers,		
January 2012–April 2016	 software architect, DenyAll, Sèvres. Worked on Protect, an Apache-base web application firewall: new versions planning, development monitoring and deployment new features development (on-the-fly SSL certificates generation, logs configuration and scaling, added support for WebSocket and RPC over HTTP protocols,) development and optimization of a command line interface (based on a SOAP API) industrialization, hardening and maintenance of DAOS, a CentOS-based system used for DenyAll Products Design and development of a cloud-based (SaaS) security solution, www.cloudprotector.com: designing the new software architecture setting up an automated management interface compatible with multiple laaS providers (AWS, Openstack, vCloud) infrastructure deployment automation (Ansible) integration and adaptation of DenyAll products 		
October 2006–December 2011 May 2004–October 2006	 R&D engineer, StreamWIDE, Paris. StreamWIDE Engine development (core technology), providing signaling and media handling capabilities for VoIP solutions (voice mail, prepaid, Ring back tone,): new modules design and implementation (Radius, Diameter, legal intercept) new SIP features (SIP over TCP, RFC 4028 session timers) reliable communication between Engine and VoIP applications Development of mobile applications integrated with StreamWIDE software: Android application development for Visual Voicemail (OMTP standard) Apple iOS applications development (iPad visual voicemail, iPhone advanced greetings) R&D engineer, StreamCore System, Puteaux. embedded network systems creation, working on: Linux system, C/C++ kernel modules 		
May 2003–September 2003	 TCP/IP streams analyzer engine development (RTT statistics,) worked on the centralized management server (Linux, shell, Perl+PHP) updated the software packaging system (automated installations and updates,) intern, Centre National d'Équipement Nucléaire (EDF), Montrouge. specification and modeling of a CAD engineering application 		

May 2002–May 2003 **network administrator**, *School students' network*, Saint-Étienne. new network deployment and maintenance

Academic background

2003-2005	Master's Degree, Institut supérieur d'Informatique et d'Automatique (ISIA).
	A two-year post-graduate program leading to the Master's Degree called "Ingénieur de Spécialité de l'École des Mines de Paris".
	Includes a 3-weeks software conception and development project (based on the P2P platform JXTA)

2001-2004 **Master's Degree**, École Nationale Supérieure des Mines de Saint-Étienne en Rhône-Alpes.

National Graduate Management and Engineering School, Master's Degree, oriented on general formation, with second year major in computer science

Technical expertise

Computers

Systems	 GNU/Linux (Gentoo, RedHat/CentOS, Ubuntu/Debian) Unix (Solaris) Windows, MacOs X 	
Languages	 experienced in C, C++, script shell, Java common use of Python, PHP notions in Perl, SQL 	
Cloud computing	 Amazon Web Services (AWS): EC2 deployments, boto SDK OpenStack: Nova, Neutron, REST API vCloud Director: pyvcloud SDK 	
Development tools	 git, mercurial, SVN, CVS Makefiles and compilation scripts writing Docker, Ansible vim, Eclipse 	
Project management	 agile software development (SCRUM) Bugzilla, Jira, Trac, Redmine 	
Mobile phones	Android (1 year)iOS/Objective-C (4 months)	
	Foreign languages	
English	bilingual	TOEIC score: 980 out of 990
French	native speaker	
Spanish	average	Diploma Básico DELE B2 (Instituto Cervantes)
Italian	beginner	
	Miscellaneous interests	

Miscellaneous, interests

Sports Scuba diving (french FFESSM level 1), swimming

Hobbies technology intelligence, Open Source contributor reading (science-fiction, historical novels)