

Bernard Cafarelli

Manager, Engineering

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born on 1981/04/27 — Driving license

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

Professional experience

- October 2025–current **manager, engineering, Red Hat, Paris**
Larger span of control and responsibilities
- September 2021–September 2025 **associate manager, software engineering, Red Hat, Paris**
- Rebuild the Neutron developers team (merging separate teams, hiring)
 - Merge and integration of development/quality engineers
 - Product management: features review and prioritisation, customer meetings
 - People management: weekly 1:1 meetings, quarterly performance reviews, career growth
- October 2020–September 2021 **principal software engineer, Red Hat, Paris**
- May 2016–September 2020 **senior software engineer, Red Hat, Paris**
Member of the OpenStack Network team. Development of networking features in Neutron, Octavia and Service Function Chaining.
- Upstream project contributions available on review.opendev.org
- March 2007–current **developer, Gentoo foundation**
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 IaaS providers (AWS, Openstack, vCloud)
 - infrastructure deployment automation (Ansible)
 - integration and adaptation of DenyAll products
- October 2006–December 2011 **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)

May 2004–October 2006 **R&D engineer**, *StreamCore System*, Puteaux

- embedded network systems creation, working on: Linux system, C/C++ kernel modules
- 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, ...)

May 2003–September 2003 **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".

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/Fedora/CentOS, Ubuntu/Debian)
 - Unix (Solaris)
 - Windows, MacOS X

- Languages
- experienced in Python, Golang, shell script, C, C++
 - previous use of Java, SQL, PHP, Perl

- Cloud computing
- OpenStack (specifically Neutron and related network services)
 - Amazon Web Services (AWS): EC2 deployments, boto SDK

- Development tools
- AI agents: Claude Code, Cursor, Gemini
 - git, mercurial, SVN, CVS
 - Makefiles and compilation scripts writing
 - Docker/Podman, Ansible
 - vim, VSCode

- Project management
- agile software development (SCRUM)
 - Jira, Bugzilla, Trac, Redmine

- Mobile phones
- Android (1 year)
 - iOS/Objective-C (4 months)

Foreign languages

English	bilingual	<i>TOEIC score: 980 out of 990</i>
French	native speaker	
Spanish	average	<i>Diploma Básico DELE B2 (Instituto Cervantes)</i>
Italian	beginner	

Miscellaneous, interests

- Sports Scuba diving (french FFESSM level 1), swimming
- Hobbies technology intelligence, Open Source contributor
reading (science-fiction, historical novels)