

Gilles Chehade
6, Rue Saget
44000 Nantes, France

Research & Development **Lead developer, Backend & SRE**

Skills

- **Languages** : C, Python, Sh, PHP, L^AT_EX, HTML, CSS, SQL, ...
- **Systems** : OpenBSD, NetBSD, FreeBSD, Linux, OSX, ...
- **Architectures** : i386, amd64, alpha, sparc64, powerpc64, arm, arm64, ...
- **Editors/IDE** : emacs, vi, mg, vscode
- **Compilers** : gcc, clang/llvm
- **Debuggers** : gdb
- **Versioning** : Git, CVS, Subversion (svn)
- **Development techniques** :
 - Secure development : privileges separation, privileges dropping, isolation, ...
 - High-performances services development : non-blocking asynchronous I/O, libevent, ...
 - Development in multi-threaded environments
- **Databases** : PostgreSQL, MySQL/MariaDB, SQLite, Redis, Riak
- **Services** : Apache, Nginx, Postfix, OpenSMTPD, Dovecot, bind, nsd, OpenSSH, ...
- **Web Framework** : bottle.py, CherryPy

Main areas of interests

- Network and system applications
- Cryptography and security
- Algorithms
- Unix

Education and Training

- in progress - Studen in Work and Organisational Psychology at CNAM Pays de la Loire
- 2016 - Ericksonian Hypnosis Practitioner at Psynapse Rennes
- 2006 - Master of Computer Science at EPITECH.
- 2004 - Maitrise at EPITECH.
- 2004 - Bachelor of Computer Science at EPITECH.

Languages

- **french** : fluent
- **english** : fluent
- **spanish** : notions
- **arabic** : understanding of some dialects

Contact

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- **phone** : 07.77.28.07.09

Professional experience

Since March 2017

Vente-Privee - Remote work from Nantes

R&D laboratory manager / Senior Lead Developer / Team leader / Architect

- Audit of mailing infrastructure and practices, outside of my work prescription
- Manager of 'lab epitech' opened by Vente-Privee at Epitech during six months
- Design and implementation of a highly-available, scalable and distributed payment solution
- Resources planning, technical choices, MVP and various PoCs
- Assisted in the opening of a new office in Nantes and in the recruiting of new employees
- Talks, meetups, tech events, ...

November 2012 - February 2017

Dalenys (ex-Rentabiliweb) - Remote work from Nantes

System developer / Team leader / Product owner

- Research and development around an e-mail routing engine
- Development of a HA, scalable and distributed e-mail routing solution
- Development of a client/server API for that solution
- Handling of deliverability to main ISP in France and US
- Traffic analysis, limits detection and detection of anti-spam mechanisms
- Preproduction, production, monitoring, troubleshooting, ...

June 2011 - November 2012

SCALITY - Paris

Research and development engineer

- Research and development around a distributed SQL engine
- MySQL proxy to proprietary engine

December 2009 - June 2011

{EPITECH.} - Nantes

Deputy Head of Studies

- Classes, defenses, helping students debugging their projects, advices, ...
- Created and managed the security laboratory

Freelance side work

- Various development and writing contracts
- Sponsored opensource developments

July 2007 - December 2009

EXALEAD - Paris

Research and development engineer

- Research and development
- Preproduction and production
- Packaging

{EPITECH.} - Paris

Speaker

- Cryptography teacher

March 2006 - June 2007

Compagnie Européenne d'Intelligence Stratégique (C.E.I.S.) - Paris

Intern, then Junior Consultant

- Research and development
- Security audits
- Firewalls administration (HA, multi-homing, ...)

Projects

- **OpenBSD** : official contributor
<http://www.OpenBSD.org>
- **OpenSMTPD** : founder and main developer
<https://www.OpenSMTPD.org>
<https://github.com/OpenSMTPD/OpenSMTPD.git>

Publications

Private

- **C.E.I.S.** : "Patch Management"
- **C.E.I.S.** : "Incidents handling"
- **C.E.I.S.** : "Setting up a CSIRT"
- **C.E.I.S.** : "Botnet attacks and Fast Flux"
- **C.E.I.S.** : "The Zeus trojan"
- **C.E.I.S.** : "Evolution of viruses : from destruction to botnets"
- **C.E.I.S.** : "Secure programming"
- **C.E.I.S.** : "DDoS prevention and attacks"
- **C.E.I.S.** : "Virtualization : security, constraints and benefits"

Online

- **Phrack** : "dynamic polyalphabetic encryption cipher" (broken since then)
- **Blog** : <https://poolp.org>

Talk

- **EuroBSDCon 2017** : "OpenSMTPD, current state of affairs"
<https://www.opensmtpd.org/presentations/eurobsdcon2017-smtpd/eurobsdcon2017-opensmtpd.pdf>
<https://www.youtube.com/watch?v=wnhvn1rsXR8>

Book

- **Some book about OpenSMTPD** : currently being written

Hobbies

- Reading
- Music, mostly Jazz, amateur guitarist and beginner drummer
- Pubs, museums, concerts, beach, ...
- Development, hi-tech, gadgets, ...
- Practice of the Penchak Silat martial art
- Occasional practice of street hypnosis