

STÉPHANE ALNET

Summary

What I've worked on

Over 20 years of experience as Systems and Network Administrator, Software Developer, Architect, Consultant, Manager. *SIP, VoIP, Unix, switching, routing.*

OpenSource Projects

- Architect & developer of the [CCNQ](#) SIP SoftSwitch.
- Author of the [esl](#) FreeSwitch library for Node.js.
- Maintainer of the [ZappaJS](#) Node.js web framework.
- Author of the [mi_json](#) module for OpenSIPS.
- Visit github.com/shimaore for more

I'm really good at

- Integrating technologies
- Always looking under the hood to learn how things really work
- Using creativity to express ideas in software

I'm also really good at

FreeSwitch, OpenSIPS, CouchDB, Node.js

What I'm looking to do next

Work with a meaningful outcome. Get a fresh start on technologies I haven't played with yet. Worldwide.

Employment History

2014-current: VoIP Architect, K-net (Brest, France)

Kwaoo is a multinational Fiber-to-the-Home (FTTH) Internet Service Provider. We provide services to thousands of residential & business customers over public FTTH networks throughout France and Switzerland under the brand names K-net and K-sys, respectively. Kwaoo is one of the top-50 fastest growing companies in France.

In 2012, Kwaoo started deploying on their network the SIP softswitch I've been developing since 2006. I was hired as a full-time employee in September 2014 to oversee and deliver continuing development, planning, deployment, tier-3 support, and overall VoIP vision for the company. I work closely with the engineering teams responsible for data, web, TV, ... development, with the tier-1 and tier-2 support teams, and with our carriers.

- Fast-paced, test-driven, daily deployment cycle using Docker.io.

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- End-to-end, full stack, realtime solution for an Internet Service Provider (ISP) network (residential & business customers).
- Development involves OpenSIPS (scalable SIP proxy), FreeSwitch (used to build SBCs and advanced call handling, including IP Centrex), Node.js, CouchDB (master-master, master-slave), Socket.IO.

2009-2014: Self-employed (Brest, France)

After following my family back to France in 2009 I kept working with Sotel Systems in the US. In 2012 I was introduced to Kwaoo/K-net in France and helped them deploy the CCNQ softswitch on their network.

In 2014 I supported two local start-ups in their pre-launch activities, providing technical architecture and guidance.

Worked on projects involving GSM (umTRx), WebRTC, and embedded (Atmel AVR, bluetooth).

2007-2009: CTO, Sotel Systems (St Louis, MO)

While continuing development and deployment of the CCNQ softswitch for Sotel Systems, I was hired to provide overall guidance for the company's IT structure.

Provided daily support of the in-house-developed SIP softswitch, carrier interaction, customer support, and grew a team to expand coverage and technical depth.

2006-current: [CCNQ](#), a SIP softswitch

- Architect, OpenSource Developer, Support
- Used in production by two mid-size ISPs in France & in the US.

This work involved creating or adapting new modules for OpenSIPS ([mi_json](#), [mathops](#)), and creating dozens of modules for provisioning, monitoring, and overall integration of SIP components.X

Among those, the [esl](#) FreeSwitch module for Node.js has been the most successful outside the CCNQ project.

Development includes a distributed sniffer with centralized traces storage, and a CouchDB-backed DNS server.

2000-2006: Cisco Systems US: Enterprise Voice, Carrier Voice (Waltham, MA; Urbana, IL)

Consultant (Advanced Services)

Delivered high-touch (up to CEO/CTO-level) design, architecture, project review, and ongoing support to select Cisco Top-100 customers in the US and abroad.

Worked with Carrier and Enterprise VoIP technology (Call-Manager PBX, H.323, ISDN & analog gateways).

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1994-2000: Network and Systems (Unix) administrator

From 1998 to 2000: worked in the US in IT positions (network and systems-related)

- CSC Consulting Group (1999-2000) — routing, L2/L3 switching, OSPF.
- MassArt (1998-1999) — Linux system administration.
- Boston HealthCare for the Homeless Program (1998) and other temp positions.

From 1994 to 1998: worked in France for the Picardy Regional Higher-Education Network, deploying and supporting switches, routers, and Unix-based services (Usenet news, email, web servers).

Diploma

1994: MS CS — DEA Informatique (Master's degree in Computer Science); Université Paris Sud (Orsay)

[Master's thesis](#) on testing formal specifications.

Extracurricular

Volunteering (recent activities)

- 2009-Current: Water station manager (2010-2013) & GIS, ASAEP (a private water association)
- 2013-2014: President, Association de Parents d'Élèves (middle school parents' association)
- 2011-2014: President, Dédale de Clown, Ecole de Cirque (circus school)

Opensource (other recent activities)

- Taught a class on [CouchDB \(2013\)](#).
- Developed an [electronic badge](#) for Open Bidouille Camp Brest.