

Software Development Engineer - Technical Leader

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Employment

- **SCALITY** PARIS, FRANCE
Software Engineer – Technical Leader *September 2013 – Present*
Scality provides software-defined petabyte-scale storage solutions.
 - Wrote in C a highly threaded cache system with read-ahead detection for files on top of the object store product called the Ring;
 - Wrote a cache for directory operations to help speed up the file-system product;
 - Added versioning support with life-cycle policies to the file-system product;
 - Wrote a library to export the file-system product on NFSv4 with Ganesha, a user-space NFS server;
 - Hardened the erasure coding feature in the Ring;
 - Led a team of 12 engineers on the connectors accessing the Ring.
 - **INTERSEC** COURBEVOIE, FRANCE
Software Engineer *October 2009 – August 2013*
Intersec develops software products for mobile operators.
 - Wrote in C a high-availability temporal statistics server handling hundreds of thousands of events per second and storing them for many years;
 - Developed in C and PHP a Short-Message-Service Center;
 - Wrote a Value-Added Service product from end to end: backend in C and Javascript using v8, front-end in PHP and Javascript.
 - **INTERSEC** COURBEVOIE, FRANCE
Software Engineer Student *2009 – 6 months internship*
 - Improved how mobile messages are networked in the high-performance MCG product, a distributed Multi Channel Gateway written in C.
 - **CEA (FRENCH ATOMIC ENERGY COMMISSION)** VALDUC, FRANCE
Software Engineer Student *2008 – 5 months internship*
 - Developed a software program to optimize and analyze the sensibility of coefficients in state equations used to model the behavior of materials in precise areas in pressure and temperature.
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Experience

- **TERMINOLOGY** <http://terminology.gy/>
Software Engineer *October 2009 – Present*
 - Lead developer on the Terminology project: a terminal emulator written in C using the Enlightenment Foundation Libraries;
 - Gave a talk on Terminology at FOSDEM 2013;
 - Wrote in C a tiling module for the Enlightenment window manager.

- **RUST/VUE.JS PROJECT** April 2016 – Present
Software Engineer
 Work on an unreleased web application.
 - Developed the backend based on PostgreSQL in Rust;
 - Wrote the frontend in javascript with Vue.js.
- **NODE.JS PROJECT** <https://github.com/billiob/photoalbum/>
July 2013 – Present
Software Engineer
 Wrote in Node.js a static photo album generator.
- **AMSN PROJECT** <http://www.amsn-project.org/>
2004 – May 2011
Software Engineer
 aMSN Messenger was an open source multiplatform MSN messenger clone.
 - Worked on the first versions written in Tcl;
 - Designed a new version written in Python and wrote the EFL and web front-ends;
 - Reverse-engineered the Ink Serialized Format - format invented by Microsoft and used for their Tablet PC and Windows Mobile systems and developed in C the libISF library used to decode and encode ISF files.

Core Technical Skills

- **Software architecture, network programming, distributed environment**
- **Systems:** Linux
- **Common Languages:** C, Rust, Python, JavaScript, Erlang, PHP, Tcl, ~~TeX~~, Brainfuck
- **Development Tools:** ViM, Git, GDB, Valgrind, perf
- **Open Source contributions:** Terminology, Enlightenment, Git, Erlang, Tmux, aMSN, ...

Education

- **ISIMA** CLERMONT-FERRAND, FRANCE
2006 – 2009
Master degree in Computer Science
 Obtained with honours an Engineering diploma in Computer Science at the ISIMA, Computer Science Engineering College.
- **CLASSE PRÉPARATOIRES DU LYCÉE CARNOT** DIJON, FRANCE
2004 – 2006
 Studied for competitive admission into French engineering colleges.
- **LYCÉE CARNOT** DIJON, FRANCE
2004
Baccalaureate S
 Obtained with honours a Baccalaureate S, Option Engineering Science, A-levels equivalent.

Languages

- **French:** native speaker
- **English:** fluent

And when I am not doing the above, I like riding my bicycle (and promoting its usage in Paris), hiking and skiing.