

BORIS FAURE

DIRECTOR OF ENGINEERING

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🌐 [borisfaure](#)

EMPLOYMENT

SCALITY

September 2013 – Present

Software Engineer → Team Lead → Director of Engineering

PARIS, FRANCE

Scality provides software-defined petabyte-scale storage solutions.

- Lead a team of (up-to) 14 engineers on the backend of the RING, from connectors offering HTTP or File interfaces down to the hard drives.
- Technical leadership across 4 engineering teams;
- Wrote in C a highly threaded cache system with read-ahead detection;
- 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.

INTERSEC

April 2009 – August 2013

Internship Student → Software Engineer

COURBEVOIE, FRANCE

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;
- 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)

May 2008 – September 2008

Internship Student

VALDUC, FRANCE

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.

EXPERIENCE

TERMINOLOGY

October 2009 – Present

- Lead developer on the Terminology project: a terminal emulator written in C
- Gave a talk on [Terminology](#) at FOSDEM 2013
- Wrote in C a tiling module for the Enlightenment window manager.

PROJECTS IN RUST

2015 – Present

Many projects in Rust, including a [parser for JUnit XML files](#), [various keyboard firmwares](#), a [Spotify controller](#), a [simple monitoring system](#), a [logger with bells and whistles](#), a [raytracer](#), a [library to interact with Google SignIn](#), and a [maze generator](#).

PERSONAL PROJECTS

July 2013 – Present

Wrote in *Node.js* a static photo album generator, a enhanced wrapper for *i3status* in *Go*, ...

AMSN PROJECT

2004 – May 2011

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, Tcl
- **Development Tools:** ViM, Git, GDB, Valgrind, perf
- **Open Source contributions:** Terminology, Enlightenment, Git, Erlang, Tmux, aMSN, ...

EDUCATION

ISIMA

2006 – 2009

Master degree in Computer Science

CLERMONT-FERRAND, FRANCE

Obtained with honours an Engineering diploma in Computer Science at the ISIMA, Computer Science Engineering College.

LYCÉE CARNOT AND CLASSE PRÉPARATOIRES

2001 – 2006

Baccalaureate S

DIJON, FRANCE

- Studied for competitive admission into French engineering colleges.
- 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 bouldering.