

Loïc Carr

DevOps Engineer

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24 yrs, double nationality: France / New-Zealand

Experience

- 2018–current **Student Research Project**, *Visualization of distributed algorithms*.
Development of a pedagogical platform on top of Elixir OTP to **learn and understand distributed algorithms** using interactive animations. Stack: Elixir OTP, VueJS (ES6), WebSockets, WebGL
- 2017–2018 **Storage Software Engineer**, *Scaleway*, Paris, France.
Design and integration of a distributed Object Storage service (S3) that provides a fast and low latency cloud storage service to Scaleway clients. I was in charge of:
- Automating hardware and software **scaling procedures**
 - Studying and testing the system **reliability and failure modes**
 - Building a high volume **real-time monitoring stack**
- 2017 (2 mo) **Software Development Internship**, *Videolan*, Paris, France.
This project goal was to provide **bindings between ElectronJS and VLC Media Player lib** via a lean API with a low performance overhead. C++/Javascript ES6/WebGL/HTML5/AJAX.
- 2016-2017 **Student project**, *Connected Hives*.
I initiated a project to **study the disappearance of bees using connected hives**. Using various sensors, cameras, and the help of a beekeeper we installed 5 hives on the campus. The experiment was terminate early due to Asian hornet attacks. The project has helped a lot to raise awareness of the issue on the campus.
- 2015 **Open Source Android App**, *Shaarli*.
Mobile app with more than **500 active users** to share links on Shaarli social network.
<https://play.google.com/store/apps/details?id=com.dimtion.shaarliier>

Education

- 2015–2019 **IMT-Atlantique**, (*Télécom Bretagne*), Brest, France.
Master of Engineering in Information Technology (a leading French Graduate Engineering School). Graduation expected in 2020.
- 2012–2015 **Lycée Michelet**, Paris, France.
Intensive preparation for the national competitive entrance exams to leading French Engineering Schools, specialising in Maths, Physics and Engineering.

Associations

- 2016 **President of the students' IT network**, <https://resel.fr>, Télécom Bretagne.
The ResEl provides Internet access, TV over IP, web hosting and mail hosting for more than **800 people** over two sites locations with a yearly operation **budget of 50,000 euros**. My role was to:
- Manage** a team of 10 students admins to monitor continuously improve the service quality
 - Develop** various automation tools like a web interface for account management, statistics and fee payments
- I am still an active member of the association, mentoring newcomers.
- 2015–2017 **President of the Astronomy Club**, *Télécom Bretagne*.
I organized sky-watching outings on the campus with 5 passionate students. I also helped a lot on the mechanics, electronics and computing for the campus' 4 meters telescope automation system.
<http://www.astronomie-pointedudiable.fr/>

Various tools I love

Dev Python, Java, OCaml, C, Rust

Ops: GNU+Linux, Ansible, Bash, Hashicorp Packer

Languages

English Fluent

French Mother language

Spanish Working knowledge

Outside activities

Music Guitarist and pianist

Sports Running, badminton, sailing, skiing