

# BRICE ARNOULD

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## MY DREAM EMPLOYER...

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Takes data-driven decisions. Has reliable software as their key differentiator. Sees people as long term investments. Is pushing further technical boundaries. Grows staying lean and efficient.

## SHORT PRESENTATION

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**Staff Dev/Ops Lead at Criteo.** I use a balanced mix of system and software skills to build high-availability distributed systems. I have a track record of writing infrastructure software in Python and C++, handling major outages, getting people together and scaling distributed systems.

## WORK EXPERIENCE

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**STAFF DEV/OPS LEAD, CRITEO, Paris, France**..... Since May 2015  
*My team is in charge of stream processing and conveying business logs. I went further to help set in place many good practices through SRE, getting promoted to staff after 9 months.*

- Built a consensus on internal SLAs between teams, facilitating the creation of a SLA guild
- Manager of a team of six that saw one departure, three promos and two newcomers
- With team, reworked business logs infrastructure from ad-hoc shell scripts to Kafka
- Contributed to major company-wide infrastructure decisions
- Implementing Graphite over Cassandra, see [s.vleu.net/biggraphite](http://s.vleu.net/biggraphite)

**SITE RELIABILITY ENGINEER, GOOGLE, Dublin, Ireland**  
*My first job, as part of a team of 16. I was promoted in 18 months and became Tech Lead shortly after. We moved fast to make MySQL a corner stone (CloudSQL, Youtube, ...).*

**TECH LEAD - MySQL SRE**..... February 2014 - April 2015

- Kept Google up coordinating 10+ engineers as incident manager during major outages.
- Reduced toil by designing and leading implementation of a Python reboot of our monitoring.
- Onboarded X new team members and new major customers.
- Found new talent conducting 2 interviews a week, partaking in hiring committees.
- Kept the team on track facilitating the definition of our roadmaps and objectives.

**ENGINEER - MySQL SRE**..... January 2012 - April 2015

- Reduced operational work from hours to minutes devising a common configuration format and Python-based provisioning system for all our deployments.
- Prevented snooping revising our integration with Bigtable.
- Performed integration with Google ACLs designing and implementing a HMAC in C++.
- Lead an intern to implement a Python debugger (opensource mirror: pyringe on Github).

**INTERN, GANDI.NET, Paris, France**..... December 2010 - July 2011  
*My last internship involved designing a system to build images, containers, and integration with the existing provisioning system.*  
Designed/Implemented a container based PaaS, commercialized as "Gandi SimpleHosting".

**SITE RELIABILITY INTERN, GOOGLE -** ..... May - September 2010  
*I got a very broad assignment ("We need to track our SLA") and turned it into a software now used by many teams at Google, devising new algorithms on the way.*  
Built Adwords' frontend availability monitoring, now used by Google+ and others.

**INTERN, ÉCOLE NORMALE SUPÉRIEURE, Lyon, France**..... April - July 2008  
*This was in a research team that wanted to explore possibilities more than getting things on the shelves.*  
Created and tested a system of pluggable schedulers for Hadoop

## EDUCATION

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MASTER OF COMPUTER SCIENCE ("GRANDE ÉCOLE"), INSA, Lyon, France..... 2009 - 2011  
BACHELOR OF SCIENCE IN COMPUTER SCIENCE ("MAÎTRISE"), UCBL, Lyon, France..... 2005 - 2009

## COMPUTER SKILLS

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CODE	Concurrent Programming; Testability; API Design; Python, C, C++, Java
OPS	<b>Deployment Systems; Incident Management;</b> Monitoring; Canaries
AT SCALE	<b>Distributed Systems;</b> Load Balancing; Clusters; RPC systems; MySQL; Kafka; ...
CULTURE	<b>Linux Internals and APIs;</b> Discrete Mathematics; <b>Security;</b> Internet Protocols