

BERTRAND TORNIL

Software Engineer, PhD

I deliver available, scalable and observable web services.

My days are full of Ansible, MariaDB, Redis, Python, Orchestrator, Kafka, Azure, Prometheus, grafana, OpenTelemetry, Solr, JVM, shell, RedHat. I also use Terraform, Kubernetes, docker, Clickhouse, Consul, and many other cool tools... Sometimes, I am a frontend hobbyist, currently playing with vue.js and Audioworklet API I used to be on-call, and I liked it!



CONTACT INFO

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🌐 www.tornil.net

in [bertrandtornil](https://www.linkedin.com/in/bertrandtornil)

🐦 twitter.com/bobuss

🐙 github.com/bobuss

For more information, please contact me via email.

SKILLS

WebService Architectures
DevOps
Open Source

EDUCATION

- | | |
|------|---|
| 2006 | Université Paul Sabatier
PhD in Information Systems (Doctorat d'informatique)
Thesis (french): Interaction gestuelle et haptique, pour plus d'utilisabilité et d'accessibilité
📍 Toulouse, France |
| 2001 | Université Paul Sabatier
MA in Computer Information (Master Image & Language)
📍 Toulouse, France |
| 1999 | Université de Limoges (Licence et Maitrise d'informatique)
BA in Computer Science
📍 Limoges, France |

PROFESSIONAL EXPERIENCE

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| Present

2016 | Principal Software Engineer
ltron
📍 Remote, USA
<ul style="list-style-type: none">• Technical swiss knife : SmartCities solution architecture• StreetLight.Vision• Duties and achievements:<ul style="list-style-type: none">• Architecture to allow Highly Availability on Premise and Cloud environments• Choice of new tools and open source software: git, Prometheus, Grafana, Kafka, Redis, orchestrator• MariaDB High-Availability (10sec failover) based on Orchestrator, HAProxy, Consul• Ansible automation• Transition to Azure DevOps Services: IAAS and Pipelines for builds and deployments• Kubernetes, Terraform• Design and deploy the Monitoring and Alerting stack• DevOps evangelism: Continuous Integration, Continuous Deployment• Technological watch, everyday |
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2016
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2009

Data Scientist, Web architect, Lead Dev, Release Manager

[IsCool Entertainment - Paris](#)

📍 Paris, France

- 2015 - 2016 : Data Scientist
 - Postgresql, w/ PipelineDB, CitusDB
 - InfluxDB
 - Google BigQuery
 - Kubernetes
- 2013 - 2015 : Lead Dev on [Lord of the Dumbs](#)
 - Python (Pyramid, SQLAlchemy, uWSGI, supervisord, Fabric)
 - postgresql, redis
 - RabbitMQ
 - RESTful webservices
 - AngularJS
- 2012 : R&D Transversal Projects:
 - RealTime dashboards (node.js / mongodb / html5)
 - QA and Continuous Delivery Processes and Tools (Jenkins, Tests, Capistrano, Monitoring)
- 2011 : Lead Dev & Release Manager on ColorParty: (up to 150,000 Monthly Active Users)
 - Shoots engine: 3Mshoots / day
 - Players Logbook Consolidation in best-effort
 - Business metrics, Users profiles, Messaging on Redis
- 2009 - 2010 : Lead Dev & Release Manager on IsCool: 1,500,000 Monthly Active Users, 80M Pages / day
 - Tokens sharing engine: still in production, 2G daily shared points
 - Redis deployment
 - Symfony2 Transition (see [Iscool Story. Symfony Live 2011 - Paris](#))
 - Release process
 - SVN to GIT Transition
 - Makefiles (assets compilation, i18n)
 - Capistrano, EC2, S3
- Development architecture on EC2
- Agile: scrum (certified), kanban and XP notions
- DevOps: 1 release per day, Monitoring via Pinba and Zabbix
- Management: 10-20 persons team, hiring, trainees

2009
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2008

Core Developer

[Dailymotion - Paris](#)

📍 Paris, France

- PHP / Mysql / memcache / git
- Localization
- Revenue sharing (ads servers)
- audio & video fingerprinting and videos publication process

2008
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2007

Web consultant

[ALTEN - Boulogne Billancourt](#)

📍 Paris, France

- PHP, Mysql, Javascript
- Web Developpment: [Virgin Mobile](#)
- R&D: [Cellfish media](#) (Lagardère Active)
- Web Developpment: [caradisiac.com](#)

2006

R&D engineer

[UIXPERS - Paris](#)

📍 Remote, France

- PHP, Mysql, Javascript

2006

Web Developer

WS Interactive - Toulouse

• PHP, Mysql, Javascript

📍 Toulouse France



RESEARCH EXPERIENCE

2009

2000

Graduate Research Assistant

IRIT & Université Paul Sabatier - Toulouse

• Search domains: HCI, Tactile and force feedback Interfaces, AI
• Teaching: CAML, C, Pascal, Delphi, Algorithms
• [Publications](#)

📍 Toulouse, France



TEACHING EXPERIENCE

2016-2013

AWS, scalability and DevOps (french)

INSSET, Master Cloud Computing

• [AWS, scalability and DevOps \(french\)](#)

📍 Saint-Quentin, France

2011

Cloud et architectures scalables (french)

EPITA

• [Cloud et architectures scalables \(french\)](#)

📍 Paris, France



SELECTED PUBLICATIONS

2011

Iscool Story

Symfony Live

Alexandre Rodière, Bertrand Tornil

📄 slideshare.net/bertrandtornil/symfony-live-2011.

📍 Paris, France

2005

Music haptic: Musical harmony notions for all with a force feedback mouse and a spatial representation

International Computer Music Conference

Bertrand Tornil, Nadine Baptiste-Jessel

📍 Barcelona, Spain

2004

Use of force feedback pointing devices for blind users

8th ERCIM Workshop User Interfaces For All

Bertrand Tornil, Nadine Baptiste-Jessel

📍 Vienna, Austria