

# Alexandre Gbaguidi Aïsse | CV

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Software Engineer (graduating this year) | Looking for a **job opportunity** starting in **Sep-Oct 2018**

## Education

- **EPITA** **Paris, France**  
*Graduate school of Computer Science, Engineering degree* *Sep 2013 – Sep 2018*
- **Staffordshire University** **Stafford, England**  
*Real-time and embedded systems, Semester abroad* *Jan 2015 – Mai 2015*

## Experience

- **Bentley Systems – Reality Modeling** **Paris, France**  
*Software engineer intern (end-of-studies internship)* *Feb 2018 - Aug 2018*  
Currently working on automatic approximation of laser scan location in 3D point cloud. Will work on point cloud data compression.
- **LRDE (Research and Development Laboratory of EPITA)** **Paris, France**  
*Intern and then, Student researcher* *Sep 2016 – Jan 2018*  
Various contributions to Spot<sup>1</sup>: Optimization of  $\omega$ -automata minimization using Boolean satisfiability (SAT) solvers, conversion of common  $\omega$ -automata classes into co-Büchi automata and checking “persistence” properties on LTL formulas.
- **Ecole polytechnique – HEC** **Paris, France**  
*Teaching assistant* *Aug 2016*  
A team of 4 assistants helping students to quickly master all programming notions (Python) being seen in a Big Data course.

## Some programming projects

- Python:** Multiple barcode recognition on a picture (using OpenCV).  
Personal blog [shumpaga.com](http://shumpaga.com) (using Django).
- Scala:** 'Tron' AI implementation: reached the 107th place over 4000 players worldwide.
- C++:** Distributed memory allocator with vector clocks for causal ordering of events (using OpenMPI).  
Real-time CUDA Raytracer.  
A spell checker based on a patricia trie with 3000 qps/core and 512 Mo as constraints.
- C:** POSIX-compliant shell based on the SCL.  
Implementation of malloc, realloc, calloc and free with a first fit algorithm.  
Basic optical character recognition software with feedforward neural network.

## Skills

- Languages:** French (Native), Russian (Native), English (TOEIC 850)
- Programming:** C, C++, Python, MATLAB, C#, Scala, PostgreSQL, Java.
- OS:** Linux / UNIX, Mac Os X, Windows.
- Interests:** Audio recording, mix, master, computer-aided music, travels, event planning.

<sup>1</sup>Spot is a C++14 library for LTL,  $\omega$ -automata manipulation and model checking: [spot.lrde.epita.fr](http://spot.lrde.epita.fr)