Alexandre Gbaguidi Aïsse | CV

02 Place Aurélie Nemours, 75013, Paris, France

□ +33 642426980 • □ aga@lrde.epita.fr • • shumpaga.com
in alexandregbaguidiaisse • □ shumpaga

Software Engineer at Acute3D | Bentley Systems

Experience

Bentley Systems - Reality Modeling

Paris, France

Sep 2018 - to date

Sofware Engineer

Currently working on *ContextCapture* TM cloud services: scheduler, multithreading.

Feb 2018 - Aug 2018

End-of-studies internship

Improve *ContextCapture* moint cloud support by implementing: an algorithm which retrieves all scanners positions of any static point cloud and a visibility algorithm which tells for each point which scanner best sees it. Both algorithms are under ongoing patents.

LRDE (Research and Development Laboratory of EPITA)

Paris, France

Student researcher

Sep 2016 - Jan 2018

Various contributions to Spot¹: Optimization of ω -automata minimization using Boolean satisfiability (SAT) solvers, conversion of common ω -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.

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

Some programming projects

Python: Multiple barcode recognition on a picture (using OpenCV).

Personal blog shumpaga.com (using Django).

Scala: 'Tron' Al 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.

¹Spot is a C++14 library for LTL, ω -automata manipulation and model checking: spot.lrde.epita.fr.