Alexis BRENON

Machine learning engineer

- December 20th, 1991 (25 y. old)
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- alexisbrenon.github.io

About

My name is **Alexis BRENON**. I am **25 years old** and I am going to defend my thesis about **Adaptive Decision Making in Smart-Home**. I am seeking for a position as a **machine learning engineer** to develop new technologies and bring them to the mainstream market.

Skills

Languages

- French: mother tongue
- English: professional efficiency

Hard skills

- Asssembly
- Bash
- C/C++
- Docker
- Git
- HTML/CSS/JS
- Java
- Latex
- Lua
- Python

Soft skills

- Collaborative
- Inventive
- Persevering
- Rigorous

Career

On going	PhD Student in computer sciences	Université Grenoble Alpes
2014	M.Sc (2nd y.) in software engineering with honors	Université Joseph Fourier
	Sandwich course as software engineer	STMicroelectronics
2013	M.Sc (1st y.) in computer sciences	Aix-Marseille Université
	Software engineer intern	Wyplay
2012	B.Sc in computer sciences with honors	Université Claude Bernard
	Software developer intern	Dipiom Media
2009	Scientific A level with honors	Lycée Rosa Parks (69)

Achievements

ARCADES

The *Adpative Reinforced Context-Aware Deep Decision System* is an adaptive decision-making system for smart-homes.
- Unified representation of heterogenous sensors
- Deep learning (Torch) for feature extraction
- Long life learning through reinforcement learning

M. Michel VACHER (Univ. Grenoble Alpes) — +33 (0)4.57.42.14.38

Publications

Research publications in national and international conferences.
M. Michel VACHER (Univ. Grenoble Alpes) — +33 (0)4.57.42.14.38
cv.archives-ouvertes.fr/alexisbrenon

StreamRecord

Recording and segmentation of audio stream on Linux (available with `pip`).
- Multi-threading
- Linux components understanding (PulseAudio, X11, DBus)

github.com/AlexisBRENON/deezer_record

TraceDecoder

Embedded systems execution traces analyser improvement
- Collaboration with Canadian, English and Marocan teams
- Binary data analyse and database storing

M. Serge DePAOLI (STMicroelectronics) — +33 (0)4.76.92.56.20

PiPy MIPS port

Port Python interpreter with Just In Time compiler for MIPS architecture.
- Transliteration of the Python syntax to MIPS assembly code

M. Aurèle TRAYNARD (WyPlay) — +33 (0)4.91.45.71.80

Self-hosted personal server

Debian based server: multimedia (Kodi), cloud (OwnCloud), raspberry pi (Boblight), etc...
- System administration : access, shares, filesystems (RAID)
- Docker based services encapsulation

💼 Open-source multimedia player

Developement of a non-technical multimedia player based on open-source components.
- Find and compare existing solutions
- Demonstrations and usability tests
- Plugins development to fullfill user expectations

M. Éric BOISSEAU — +33 (0)9.72.22.88.52

🏠 Open-source contributions

Contributions to open-source projects as Chromium or AwesomeWM.

github.com/AlexisBRENON/

www.chromium.org/Home

🎓 Life-game (cellular automaton)

Pair working for the development of a cellular automaton graphical application.
- Object oriented design and development
- AWT graphical user interface and web applet

github.com/AlexisBRENON/life-game-lif13

🎓 Stellody

Pair working for the development of an audio player with 3D display.
- GTK+ user interface with Mac and Linux compatibility
- Signal processing for musical analysis

github.com/AlexisBRENON/stellody

🏠 Vinyl

Beamer Latex like web framework for scientific posters and talks.
- Automatic layout with flexbox
- Bibliography (bibtex, bibjson) parsing and rendering

github.com/AlexisBRENON/Vinyl

🏠 Hyperion2Boblight

Server-client application available through `pip` for Boblight based AmbiLight like systems.
- Communication protocol retro-engineering
- Packaging and distribution on a widely used plateform

github.com/AlexisBRENON/hyperion2boblight