



Alexandre Poirrier

Nationality: French

Contact



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Skills

Programming :

- C, including networks, multithreading and memory management
- C++, including HPC and distributed computations (MapReduce)
- Java, including networks, API development and multithreading
- Python, including numpy, matplotlib and AI such as tensorflow/keras

General :

- Office : LaTeX, Microsoft Office
- Docker
- OS : Ubuntu, Kali (including bash), Windows 10 (with Powershell basics), Arduino, Raspberry Pi

Languages

- French (mother tongue)
- English (fluent)
- German (scholar)

Experience

- Apr 2019 - Aug 2019 Network Researcher Intern, Cisco Systems France
Optimization of VPP, a software dataplane, by rewriting source code to better exploit commodity CPU capabilities.
- Jun 2018 - Aug 2018 Data scientist Intern, BeeBryte Singapore
Design of a trading algorithm to optimize energy consumption in commercial buildings.
Reinforcement learning of deep neural networks.
- Oct 2017 - May 2018 Examiner in preparatory classes Sceaux, France
Teaching and coaching bachelor students in mathematics.
- Sep 2016 - Mar 2017 Engineering intern, CMRRF de Kerpape Ploemeur, France
Animation of a Fablab: teaching 3D softwares and creation of technical aids for people with disabilities.
Immersive experience in a rehabilitation center in contact with recovering people and medical staff.

Education

- 2019-2020 ETH Zurich, Switzerland
Master Degree in Computer Science, Information security track.
Master thesis: Continuous authentication in Secure Messaging. <https://www.research-collection.ethz.ch/handle/20.500.11850/474066>. Publication submitted to EuroS&P 2022.
- 2016-2019 École polytechnique Palaiseau, France
Overall GPA (4.0 base) : 3.93
Master in Computer Science, cybersecurity track.
Project: Server agnostic Load Balancing using Segment Routing and hardware modification.
- 2013-2016 Preparatory classes in Lycée Henri IV Paris, France
Study of maths, physics and computer science.

Awards

- 2018 Winner of the French Microsoft Imagine Cup France
Imagine Cup is an innovation competition in which students compete in teams to promote their entrepreneurship projects. The presented product is a web application helping hearing impaired people and foreigners get access to culture using augmented reality.

Interests

- Chess No official license but elo 2100 on lichess.org.
- CTF competitions Passionate about hacking and CTF competitions.
Achievements: top 10 in DGSE Challenge 2020, regularly around top 50 in worldwide competitions.
<https://github.com/apoirrier/CTFs-writeups>.