

Mohamed BASSIOUNY

Summary

I am a computer science student with a passion for systems and programming. I learned a lot about cloud and web by managing my own dedicated servers since years to host websites and services I build. I am very interested in research in the field of quantum computing as well as applications of HPC and distributed and parallel computing.

Professional and research experience

- **Formal Verification of Quantum circuits research internship**– CEA Saclay – (April– September 2022), [Saclay, France](#).
- **Device-independent Quantum Key distribution research internship**– ENS-Lyon – (April– July 2021), [Lyon, France](#).
- **Operational acceptance tester for admissions Platform** – Université Paris-Saclay – (October –November 2020), [Paris, France](#).
- **Avalon research team internship** (deployment and prototype validation) – INRIA/LIP – (May – July 2020), [Lyon, France](#).
- **computer science teaching assistant** – University Lyon 1, (November 2019 –April 2020), [Lyon, France](#).
- **Microsoft products advisor** – Directly (July 2019 – present), [Online freelance](#).
- **Software engineering internship** (Linux customization and hardening) – Digital Secure (July - August 2019), [Cairo, Egypt](#).
- **Full stack web development** (NodeJS, JavaScript, CSS, Interfaces, and user experience) – Systel-Motorola (July - August 2018), [Cairo, Egypt](#).

Education

- 2021-2022: M2 MPRI – ENS Paris-Saclay, **Parisian Master of Research in Computer Science (MPRI)** – [Paris, France](#).
- 2020-2021: M1 MPRI – Université Paris-Saclay, **Parisian Master of Research in Computer Science (MPRI)** – [Paris, France](#).
- 2020: Claude Bernard University Lyon 1, **Bachelor of computer science** – [Lyon, France](#).
- 2017: **French Bac Science stream (AEFE)** – [Cairo, Egypt](#)

Side projects and hobbies

- Writing online tutorials and articles about technology.
- Member of TEDx open project translation team ([amara.org](#) – subtitles for TEDx talks) and have wide experience in subtitling.
- Active member of DigitalFaq, with huge interest in analog video capture and video restoration.

About me

Website: [Mohamedh.me](#)
GitHub: [/mbassiouny33](#)

Abilities

- Teamwork
- Self-learner
- Self-motivation and determination
- Problem solving

Languages

- **Arabic:** mother tongue
- **French:** fluent
- **English:** fluent (C1,7.5 in IELTS)
- **Spanish:** basic user
- **Turkish:** basic user
- **Japanese:** beginner

Skills

- **Quantum Information theory**
- **Quantum algorithms and programming in Qiskit.**
- **Python**
- **C, C++, Java**
- **Docker**
- **Git**
- **Prolog, scheme, Coq** (beginner)
- **System administration** (Linux & windows)
- **Web dev: Frontend & UI** (JavaScript, CSS, Bootstrap, jQuery)
- **Web dev: Backend** (PHP, CMS, WP, NodeJS...)
- **Video encoding** (video capture, restoration, codecs, ffmpeg, avs...)