



Nsukami Patrick

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Highly experienced software engineer, passionate about [free software](https://sill.code.gouv.fr/list) and with a growing interest in writing & teaching. Advanced skills with programming tools complemented by the proven ability to learn and rapidly utilize new technologies. Interested in all the opportunities that will make me grow, as a software engineer, but also as a human being.

ME:

Operating systems - GNU/Linux (Debian, Ubuntu & derivatives), Void Linux

Programming languages - Python, Bash, SQL, Lisp

Databases - Sqlite, Postgresql, DuckDb, Redis, Elasticsearch

Software development methodologies - Agile, Kanban, Pair programming, Devops, Lean

Frameworks & Libraries - [Flask](#), [Django](#), [Sqlite](#), SQLAlchemy, [Mypy](#), [Numpy](#), [Pandas](#), [Streamlit](#)

Toolbelt - Tmux, Emacs, SSH, [Podman](#), [Pytest](#) Git, Mercurial, Make, Tox, Nginx & [more](#)

Spoken languages - French (native), Lingala (native), English (TOEFL 2005)

Hobbies - Listening to music, Reading, Writing, Journaling, Cooking, Jump rope, Kettlebells

EXPERIENCE:

Institut Pasteur Dakar

August 2023 - Present

Software engineer

Dakar Senegal

- Build [Rest APIs](#) for the immunology lab and help them with the management, the processing and analysis of all the datas associated with their 96 wells PCR plates.

EXPERIENCE:

Dakar Institute of Technology

Oct 2019 - Present

Programming instructor

Dakar Senegal

- Building what I believe will be one of the greatest programming [school](#) here in West Africa.
- Designed and developed engaging curriculum [materials](#) tailored to learners with different skill levels.
- Delivered the said materials to 200+ sholars with different backgrounds & coming from all over Africa.
- Gave 30+ courses focused on Python programming, databases, version control system, unit testing, Rest APIs.
- Assessed student progress through assignments, exams, workshops and personal projects.
- Organized industry visits to enhance students understanding of real-world applications.
- Helped some of the students with internship and [job placement](#), here in Senegal but also in Guinea.

Logilab

Oct 2018 - Oct 2021

Software engineer

Remote

- Currently trying to update and refresh the technical documentation for the [RQL package](#).
- Helped write and review the materials (courses & exercises) written for the [trainings](#) offered by Logilab.
- Did weekly pair programming and code review sessions with Logilab's teammates.
- Been in charge of adding Python [type annotations](#) to the [RQL package](#).
- Was in charge of reviewing some of the internal software components and migrating them to Python3 before the [Python2 sunseting](#).

Brief.me

Feb 2018 – June 2018

*Software engineer**Remote*

- Authored technical documentation and provided training to end users.
- Worked on the payment gateway integration to the web platforms.
- Worked on back office performance optimization (reducing # of database queries, extracting specific fields, ...)
- Maintenance and features addition for the [brief.me](#) & the [brief.eco](#) platforms.
- Did system administration: setting up web servers and SSL certificates + monitoring.
- Configured continuous deployment for all the internal projects

XCG Consulting

Feb 2017 – Jan 2018

*Software engineer**Remote*

- Provided one-on-one technical support and assistance to end users, making sure their questions and concerns are addressed.
- Designed and implemented multiple features experiments in all the [main Django projects](#) at that time.
- Explored and used Docker containers to ease and accelerate Django deployment.
- Did a lot of integration work (payment gateway, currency rates, monitoring, ...) for all the in house Django projects.

FREE AND OPEN SOURCE SOFTWARE CONTRIBUTIONS

I think, the ability to access, modify, and distribute software freely not only fosters innovation but also promotes collaboration and knowledge sharing within the community. *I also think*, whenever I can, I should contribute back to free and open source software. The following are some of the contributions I have done:

- Improved type annotations for some methods inside the [Pandas stubs](#) repository.
- Added translations and attempted to update Github Actions to run even more tests for the [Piccolo admin](#) project
- Added some stubs inside the [Typedshed](#) repository
- Fixed some bugs for the [Healthsites.io](#) project.

EDUCATION

Institut Supérieur d'Informatique (ISI) Master in software engineering , BAC+5	Dakar, Sénégal 2010
Institut des Sciences de L'Ingénieur (ISCI) Bachelor in informatics , BAC+3	Dakar, Sénégal 2008
Centre d'Entreprenariat et de Développement Technique, CEDT le G15 Certificate of Advanced Technician , BAC+2	Dakar, Sénégal 2007
Lycée Technique National Omar Bongo Baccalauréat, série E , BAC	Libreville Gabon 2004

"Les espèces qui cessent d'apprendre et de s'adapter disparaissent." Thomas L. Friedman.