Nsukami Patrick

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Blog · Mastodon · Code

Highly experienced software engineer, passionate about free software 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

— Developed REST APIs for the latest iteration of 4S, a syndromic surveillance system that monitors symptom clusters to enable early and faster detection of epidemics and public health events through real-time data analysis.
— Developed REST APIs to streamline data retrieval from 96-well PCR plates (ELISA assays) for the immunology laboratory, implemented patient data mapping systems, and created comprehensive data processing solutions including visualizations, reports, and analytical tables.

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 offerd 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 sunsetting.

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, ...)
— Maintainance 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 Typeshed repository
— Fixed some bugs for the Healthsites.io project.

EDUCATION

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

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