

# Patrick Happi

Senior Python Developer

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## Professional summary

With over 10 years of experience and over 5 years leading Python development teams, I've built a strong track record of success in delivering innovative solutions. I'm passionate about building high-quality, scalable solutions and fostering a collaborative environment where developers can thrive.

## Employment history

### Sr. Python Developer / Tech. lead | Amaris Consulting (Client: Roche)

**Stack:** Python (Pyramid framework), Linux, Ansible, Cromwell, Docker, GitLab, Jira, Jenkins, Microservices, REST APIs, AWS, HPC, Vue.js, Sql Alchemy, Agile Scrum, Datadog, sentry.

*Jun 2021 – Present*

- Led the architecture and design of "Bluecopper," a centralized platform for scientists to organize, store, and analyze experiment data from lab instruments.
- Mentored junior developers, provided technical guidance, and collaborated with PMs on planning and estimation tasks.
- Successfully championed the implementation of a multi-tool workflow system using Cromwell and HPCs, reducing complex data analysis processing time for scientists by 60% on average. This automated system replaced manual scripts and sequential job execution, significantly improving efficiency and collaboration.
- Contributed to containerizing the platform for seamless deployment and maintenance on AWS, facilitating the cloud migration process.

### Full Stack Engineer | TRACK REVENUE

**Stack:** Python (Django framework), Ansible, Linux, AWS Services (Firehose, EC2, Mongo DB, CloudWatch, Domain53, SQS, redshift, Redis, S3), GitHub, Jira, Jenkins, REST APIs, Angular JS, Agile Scrum, Graphana, Celery, sentry, boto3.

*Sep 2017 - Jun 2021*

- Developed features for a high-traffic performance marketing software platform used by Media Buyers and Affiliate Networks to track, manage, analyze, and optimize media campaigns.
- Built a domain scanner feature that automates partner domain scanning to identify and disable flagged domains, preventing revenue loss from bad traffic by at least 90%.
- Implemented autoscaling directly from platform based on ML data using boto3 to optimize AWS instance costs based on real-time traffic fluctuations and specific verticals.
- Championed the adoption of AWS Firehose to capture real-time clicks and store them in DynamoDB for fast user access and Redshift for long-term storage and querying.
- Collaborated on the development of an external API endpoint to enable partners to integrate and automate campaign execution on the platform, increasing partner campaign volume by 30% and reducing manual campaign setup by approximately 45%.

### Analyst Programmer | The University of Bamenda

**Stack:** PHP, SQL, Github, Linux, HTML5, Javascript, CSS, Laravel

*Sep 2014 - Aug 2017*

- Spearheaded the design and execution of a web-based student registration system, streamlining enrollment processes.
- Utilized PHP and MySQL to enhance user experience and response times.
- Implemented Git for version control, facilitating code collaboration and change tracking.

## Web Designer | Phoenix Informatique

**Stack:** PHP, SQL, Linux, HTML5, Javascript, CSS, CMS

*Sep 2010 - Sep 2014*

- Crafted and personalized websites using WordPress, Joomla, and Drupal, with a focus on user interaction and responsiveness.
- Implemented responsive design principles for optimal functionality across various devices.
- Utilized HTML5 and CSS for web page structuring and styling, adhering to web standards.

## Skills

**Programming Languages:** Python, SQL, JavaScript, PHP

**Version Control:** Git

**Cloud Computing:** AWS, Azure, GCP

**Web Development Frameworks:** Django, Pyramid, Flask, FastAPI, React, Angular, Vue.js

**DBMS:** MySQL, DynamoDB, PostgreSQL, MongoDB, SQL Server, Oracle

**Agile Methodologies:** Scrum, Kanban

**CI/CD:** Jenkins, GitLab CI

**Automation Testing:** Selenium, Pytest, JUnit

**Operating Systems:** Linux, Windows, macOS

**Containerization:** Docker, Kubernetes

**RESTful APIs**

**DevOps Tools:** Ansible, Terraform

**Data Analysis:** Pandas, NumPy, Matplotlib

## Education

**University of Ngaoundéré | Bachelor's degree, Software Engineering**

*Sep 2007 - Sep 2010*

## Languages

**French** (*Native*)

**English** (*Native*)

## Links

[LinkedIn](#)

[Website](#)

## Certifications

**IBM Data Science Specialization | IBM**

**Issued:** Apr 2020

[Show Credential](#)

**AWS Certified Cloud Practitioner | Amazon Web Services (AWS)**

**Issued:** Nov 2020

[Show Credential](#)