

Amstrong Tah Forwah, PhD

Yaoundé, Cameroon

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github.com/Forwah2023 | <https://forwah2023.github.io/>

Summary

Full Stack Software Engineer with 3+ years of full-stack development experience using Django, Django REST Framework, Next.js, and React. PhD in Physics turned developer, data analyst, passionate about data-driven educational tools, interactive dashboards, and scalable web applications. Seeking remote or hybrid roles to deliver user-centric solutions and drive measurable impact.

Skills

- **Skills:** JSON-based APIs, JavaScript and JQuery, data workflows and data pipelines, Excellent communication skills, Technical documentation
- **Programming languages:** Python, JavaScript (ES6+), SQL, HTML5, CSS3, MATLAB
- **Frameworks:** Django, Django REST Framework, Next.js, React, Dash
- **Databases:** PostgreSQL, SQLite
- **Tools:** Power BI, Git, Docker

Experience

Self-Employed

Jan 2023 - Present

Full Stack Engineer, LMS (Self-Employed)

Yaoundé, Cameroon

- Built Texam, a full-stack quiz generation platform (Django REST, Next.js), boosting exam-generation throughput by 200%.
- Developed Classroom Insights, automating Excel-based student analytics to cut manual grading errors by 95%.
- Created Wordle Clone and PdfResearch, Python GUIs that enhanced user engagement and multi-folder document search.
- Designed interactive dashboards with Power BI and Dash to visualize DV-Lottery statistics for strategic decision-making.

University of Yaoundé I

Dec 2018 - Dec 2022

Doctoral Researcher

Yaoundé, Cameroon

- Conducted computational modeling and bifurcation analysis; published two peer-reviewed articles in Nonlinear Dynamics and Chaos & Fractals.
- Utilized MATLAB, Python, and continuation methods to investigate neuronal oscillations and pattern formation, enhancing understanding of complex neural behaviors

Ministry of Secondary Education

Jan 2013 - Present

Physics Teacher

Yaoundé, Cameroon

- Delivered curriculum for 200+ secondary and high school students; consistently achieved top exam pass rates.
- Designed practical lab sessions and theory lessons; mentored students in national and international competitions.

Selected Projects

Texam (Full-Stack Quiz App, Lead Developer) | <https://texam-ui.vercel.app/>

Jan 2024 - Present

LMS (Self-Employed)

Yaounde

- Tools: Django, Django REST, React, Next.js.

DV-Lottery Statistics (Data Visualization Engineer) | <https://django-plotly-dv.onrender.com>

Jan 2023 - Jul 2023

LMS (Self-Employed)

Yaounde

- Tools: Django, Dash, Plotly.

Strong Book Reviews (Backend Developer) | <https://gee22strong.pythonanywhere.com/>

Jan 2023 - Dec 2023

LMS (Self-Employed)

Yaounde

- Tools: Django, Bootstrap

Power BI Capstone (Data Analyst)

Jun 2024 - Sep 2024

LMS (Self-Employed)

Yaounde

- Tools: Power BI, Excel

Classroom Insights (Python Developer) | <https://sourceforge.net/projects/classroom-insights/>

Jan 2023 - Mar 2023

LMS (Self-Employed)

Yaounde

- Tools: Python, PyQt, Pandas.

PdfResearch (Python Developer) | <https://sourceforge.net/projects/pdfresearch/>

Jun 2023 - Dec 2023

LMS (Self-Employed)

Yaounde

- Tools: Python, PyQt

Education

University of Yaoundé I

PhD, Physics

Dec 2018 - Dec 2022

Certifications

- **Microsoft Power BI Data Analyst Specialization:** Coursera, October 2024

Publications

- Forwah A. T., C. B. Tabi, T. C. Kofané. Hopf bifurcations on invariant manifolds of a modified Fitzhugh-Nagumo model..*Nonlinear Dynamics* 102(1):311–327, 2020.
- Tah F. A., C. B. Tabi, T. C. Kofané. Pattern formation in the Fitzhugh–Nagumo neuron with diffusion relaxation..*Chaos, Solitons & Fractals* 147:110974, 2021.