

Amstrong Tah Forwah, PhD

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forwah2023.github.io

Summary

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

- Programming: 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

Software Engineer, LMS (Self-Employed)

Yaoundé, Cameroon

Jan 2023 – Present

- 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.

Doctoral Researcher, University of Yaoundé I

Yaoundé, Cameroon

Dec 2018 – Dec 2022

- 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.

Physics Teacher, Ministry of Secondary Education

Yaoundé, Cameroon

Jan 2013 – Present

- 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)** — Django REST, Next.js. Live: heroku.app
- **DV-Lottery Statistics (Data Visualization Engineer)** — Dash, Plotly. Live: onrender.com
- **Strong Book Reviews (Backend Developer)** — Django, PythonAnywhere. Live: pythonanywhere.com
- **Power BI Capstone (Data Analyst)** — Power BI. View: powerbi.com
- **Classroom Insights (Python Developer)** — Python, PyQt, pandas. Source: SourceForge
- **PdfResearch (Python Developer)** — Python, multithreading. Source: SourceForge

Education

PhD in Physics, University of Yaoundé I
Yaoundé, Cameroon

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.

Workshops & Conferences

- CERN High School Teacher Program, Geneva, Switzerland (Jul 2022)
- CONFCAYS Workshop on Ethics in Research & Entrepreneurship, Yaoundé, Cameroon (Aug 2021)