

PRINCE AGYEI TUFFOUR

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EDUCATION

Oregon State University – Corvallis, OR

Sept 2021 - Dec 2023

Master of Science in Mathematics, GPA: 3.44

Honors: Distinguished Provost Scholar, 2021

Relevant Coursework: Linear Algebra, Programming and Data Structures, Probability, Applied Machine Learning, Numerical Analysis, Methods and Models of Applied Mathematics, Quantum Computing

Kwame Nkrumah University of Science and Technology – Kumasi, Ghana

Sept 2016 - May 2020

Bachelor of Science in Mathematics, GPA: 3.92

Honors: Magna Cum Laude, Department Valedictorian

Relevant Coursework: Discrete Mathematics, Statistics, Regression Analysis, Scientific Computing, Optimization, Calculus, Differential Equations, Linear Algebra, Mathematical Methods, Numerical Methods,

SKILLS

Technical Skills

- **Programming languages:** Python, Javascript, C++, MATLAB, R, MySQL, Julia
- **Machine Learning/Deep Learning:** PyTorch, TensorFlow, Keras, Scikit-Learn, Machine Learning/Deep Learning Algorithms
- **Data Visualization:** Matplotlib, Seaborn, Tableau, Power BI, Excel VBA
- **Web Development:** Node.js, jQuery, HTML5, CSS3, React, Flask, Django, RESTful APIs, Typescript, SASS, Axios
- **Database Management:** PostgreSQL, MongoDB
- **DevOps and Cloud:** AWS, Docker, Google Cloud Platform
- **Operating Systems and Tools:** Linux/Unix, Git, Bash, Express, Jupyter Notebook, PyCharm

Soft Skills

- **Interpersonal Skills:** Effective Communication, Cross-functional Teamwork, Leadership, Result-oriented, Self-motivated, Independent, Project Coordination, Organized, Detail-Oriented, Passionate, Multitasking, Continuous Learning
- **Problem-Solving:** Mathematical Reasoning, Algorithmic Thinking, Design and Experimentation, Mathematical Modelling, Automation, Analytical Thinking

EXPERIENCE

The AFEX Hub – Ghana/Kenya

June 2016 - July 2021

Database Management Specialist

- Spearheaded indexing improvements and normalization techniques, reducing query run times by **50%** and boosting database query performance by **40%**.
- Designed and implemented new database architectures and migrated legacy systems, enhancing data model efficiency and supporting new project releases.

FLEEF Ghana – Ghana

Sept 2018 - Feb 2019

Software Developer

- Developed a responsive website using Python, HTML, CSS, and Flask, increasing traffic by **45%** and user engagement by **20%**.
- Organized and conducted training on ethical leadership, alongside weekly seminars and educational activities.

PROJECTS

Machine Learning Web App for Salary Prediction

- Developed a machine learning model with **85%** accuracy for predicting software development salaries, reducing hiring costs by **30%**.
- Integrated the model into an interactive web app using **Python** and **Streamlit**, making salary predictions accessible and practical.

Facial Recognition Research Project

- Conducted research on PCA, KL Expansion, and SVD for facial recognition preprocessing, reducing a dataset from 10,000+ images to 150 eigenfaces, achieving **80%** accuracy.

- Improved facial recognition performance by implementing **KNN** on preprocessed data, enhancing security protocols and user experience.

GPU Memory Profiler

- Contributed to developing a GPU Memory Profiler, resulting in a **30%** reduction in memory usage and a **25%** increase in processing speed for deep learning tasks.
- Involved in memory tracking, visualization tool creation, and profiling report generation, showcasing cross-functional collaboration and technical problem-solving.