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

Baseline Network Generation Tools for OPUS Projects
- Engineered a GUI application with PySide6 for baseline network generation in OPUS projects, including interactive map rendering, RINEX data processing, and XML configuration, improving design and visualization efficiency by **40%**.
- Developed Python scripts using geospatial libraries for data analysis, inter-station distance calculation, and optimal hub location identification, leading to a **30%** reduction in project setup time.

Full Stack Blog App
- Created a full-stack blog application with Python, Flask, and SQLite, enabling CRUD operations and user authentication, resulting in a **25%** increase in user engagement.
- Added JavaScript functionality for commenting on posts, enhancing interaction and engagement by **20%**.

MyPass Password Manager
- Built a secure offline password management system with search functionality, improving password retrieval efficiency by **50%**.
- Enhanced user experience by implementing strong random password generation, copied directly to the clipboard, and stored in an encrypted JSON file.