George Fotabong
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Skills

Results-oriented Software Engineer with hands-on experience developing scalable full-stack and machine learning applications. Adept in building performant APIs, containerized microservices, and data-driven systems that improve reliability and user experience. Passionate about delivering efficient, production-ready solutions through clean code, CI/CD automation, and agile collaboration.

Core Skills: Python, TypeScript/JavaScript, C#, Java, FastAPI, React, .NET, Tailwind, PostgreSQL, MongoDB, Docker, AWS, GitLab CI/CD, TensorFlow, PyTorch, REST APIs, Algorithms, Data Structures.

Technical Strengths

- **Languages:** Python, JavaScript/TypeScript, Java, C#, PHP, C
- **Frameworks:** FastAPI, React, .NET, Tailwind, PyTorch, TensorFlow
- **DevOps:** Docker, AWS, GitLab CI/CD, Grafana, Ansible
- **Databases:** PostgreSQL, MongoDB, MySQL
- **Concepts:** Distributed Systems, Service-Oriented Architecture, API Design, Unit Testing, Scalability, System Reliability

Work Experience

- **Software Developer Intern** **Continuum Commerce Solutions** January 2025 – September 2025
  - Designed and deployed a full-stack configuration management platform, reducing manual setup time by ~40% for client integrations and enabling dynamic data-driven policy updates.
  - Implemented API fuzz testing to detect edge-case failures, improving backend reliability and reducing reported API bugs by 25%.
  - Integrated SonarQube analysis into CI/CD pipelines, refactoring legacy code and cutting critical code smells by 35% across multiple repositories.
  - Led a GitLab repository optimization initiative, shrinking repo size by 60% through automated garbage collection and improving cloning performance for all developers.
  - Collaborated cross-functionally with DevOps and backend teams to enhance monitoring and deployment stability using Grafana and Docker.

- **Student Tutor** **Laurier Computing Society** September 2021 – May 2023
  - Tutored peers in python, Java, and with data structures helping with progression in classes and understanding of the course work.
  - Led personal debugging and study sessions to help students with assignments and with preparation for midterms and final exams.
  - Mentored 30+ peers in Python, Java, and Data Structures, boosting course pass rates and conceptual understanding through targeted problem-solving sessions.
  - Conducted debugging workshops that improved student efficiency and confidence in applying algorithmic principles.

- **Research Writer** **Strasity Inc** July 2021 – October 2021
  - Produced bi-weekly newsletters using Canva and Microsoft tools.
  - Created data-driven reports for the monthly newsletters and created RFPs to receive jobs for Strasity Inc's DEI workshop consultation services.

Education Wilfrid Laurier University & Munster Technological University (2020-2025)
Bachelor of Science in Computer Science (specialization in Software Development)

Projects

Fantasy Premier League Prediction System | Python, Pandas, Scikit-learn, XGBoost, Streamlit

- Engineered a **machine learning pipeline** that forecasts player performance using real-time FPL API data and ensemble models (XGBoost, LightGBM).
- Automated feature extraction, hyperparameter tuning, and cross-validation, improving model accuracy by **~15%** across test seasons.
- Deployed predictive dashboards for weekly performance insights using Streamlit.

Toronto Event Finder App | FastAPI, React, Docker, Tailwind, PostgreSQL

- Built and containerized a location-aware event discovery app integrating Toronto's open data API and geocoding search via Nominatim.
- Implemented dynamic filters for distance, category, and cost with optimized query handling and responsive UI, resulting in instantaneous search (<300ms) load times.
- Configured multi-stage Docker builds (Python + Node/Nginx) and automated deployment pipelines.

Income vs Education Inequality Analysis (USA) | Python, Colab, Pandas, Matplotlib

- Analysed multi-year datasets to model correlations between median income and education access per county.
- Developed a regression-based prediction model to project inequality trends, achieving an R^2 of 0.84 in validation tests.