George Fotabong
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Professional Summary:

Results-driven Software Engineer with 3+ years of experience building scalable backend systems, cloud-ready applications, ETL/ML pipelines, and data-driven solutions. 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. Proven track record improving system reliability, automating workflows, and delivering production-quality software across distributed, containerized environments. Skilled at transforming requirements into efficient architectures while collaborating cross-functionally to ship stable, maintainable features.

Core Skills:

Programming & Scripting: Python, JavaScript/TypeScript, Java, C#, SQL, Bash
Data & Analytics: Data Science, EDA, ETL Pipelines, Power BI, Pandas, NumPy, Scikit-learn, XGBoost
Backend & API Development: FastAPI, .NET, REST APIs, Microservices, SOA, API Architecture
Frontend: React, Tailwind CSS, Component-Based UI Development
DevOps & Cloud: Docker, AWS, EC2, S3, RDS, Terraform, Ansible, GitLab CI/CD, Grafana, Monitoring/Observability
Databases: PostgreSQL, SQL Server, MongoDB
ML / AI: Model Training, Feature Engineering, ML Pipelines, TensorFlow, PyTorch
Software Engineering: Distributed Systems, Scalability, Unit Testing, System Reliability, Version Control (Git)

Work Experience:

- **Continuum Commerce Solutions: Software Developer** Nov 2024 – Sept 2025

  - Contributed to full-stack development across multiple .NET Aspire projects, emphasizing maintainability, scalability, and clean architecture.
  - Designed and deployed a full-stack configuration management platform using .NET and SQL Server, streamlining client configuration updates and improving operational efficiency.
  - Built and automated API fuzz-testing pipelines to detect edge-case failures and security vulnerabilities, improving backend reliability and reducing critical incidents.
  - Refactored legacy systems and integrated SonarQube into GitLab CI/CD workflows, improving code quality, maintainability, and reducing technical debt.

- Led Git repository optimization initiatives using Git, Bash scripts, and automated cleanup tools, improving repository performance and reducing clone times.
- Collaborated with DevOps teams to enhance deployment stability and cloud infrastructure using Docker, AWS (EC2, ECS, S3), and infrastructure-as-code tools like Ansible and Terraform.
- Developed Python-based ETL pipelines and Power BI dashboards to aggregate, transform, and visualize configuration data, enabling data-driven operational decisions.
- Implemented role-based authentication/authorization and automated testing frameworks for backend services using NUnit and Bunit, improving security, release confidence, and QA efficiency.
- Participated in Agile sprints with cross-functional development and QA teams, contributing to CI/CD automation, containerization, and scalable SaaS deployments.

- **Rocket Financial:** Oct 2022 – Sept 2024
  Junior Software Developer
  - Built responsive, accessible front-end interfaces using React and TypeScript, enhancing user experience and reducing UI-related support tickets.
  - Developed microservices and containerized applications with Docker/Kubernetes, enabling streamlined deployments.
  - Automated testing suites using NUnit/Jest/PyTest, increasing code coverage and reducing regressions.
  - Collaborated with cross-functional teams to analyze requirements, refine technical specifications, and deliver production-ready features.
  - Optimized database queries and schema designs to improve data retrieval efficiency by 40%.
  - Contributed to full-stack development of internal tools, reducing manual workflows and improving operational efficiency.
  - Developed a Python-based ETL pipeline to automate data ingestion, transformation, and deployment to Power BI for enterprise reporting.
  - Supported migration of legacy components to modern frameworks, lowering maintenance overhead.
  - Built dashboards and data visualization components to support data-driven decision making.
  - Participated in code reviews to strengthen code quality, maintainability, and development standards

- **Strasity Inc:** **July 2021 – July 2022**
  Research Writer
  - Leveraged data-driven research and analysis to develop insights for Requests for Proposals (RFPs) supporting DEI workshop contracts, contributing to new client opportunities and improved proposal quality.
  - Created professional, visually- polished RFP packages and pitch materials using Canva and Microsoft tools, enhancing clarity, branding consistency, and competitiveness in contract bids.
  - Collaborated closely with management on a weekly basis to align proposal strategy, revise content, refine research findings, and ensure deliverables met organizational standards.
  - Engaged with prospective clients to gather requirements, clarify project needs, and support the pre-sales process, strengthening relationships and increasing the likelihood of contract awards.
  - Developed and delivered PowerPoint presentations used by leadership during client meetings, internal strategy reviews, and DEI workshop pitches.
  - Produced bi-weekly newsletter content for the company's subscriber base, combining written content, data insights, and visual storytelling to improve audience engagement and brand awareness.

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 across the individual season.
- Deployed predictive dashboards for weekly performance insights on social media to promote the work being done.

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.