

# Godfred Somua – Gyimah, PhD

• DATA & AI / ML PLATFORMS • PRODUCT MANAGEMENT • PROGRAM MANAGEMENT • TECHNICAL LEADERSHIP •  
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**Objective:** I'm an ML & AI leader with 12+ years combined experience in data science, machine learning, AI / ML operations, computer vision, product management, program management, and data-driven research across multiple industries (FinTech, BioTech, Telecommunications, Industrial Engineering, etc). Currently seeking an opportunity where I can leverage my technical knowledge, skills and experience to drive solutions.

## RELEVANT COMPETENCY AREAS

- **Product Management:** Data-Driven Research, Prioritization, Roadmapping, Strategy, Estimation, Execution
- **Technical Skills:** Analytics, Data Science, Machine Learning, ML Ops, Data Ops, Computer Vision
- **Product Tools:** ProductBoard, JIRA, Confluence, Coda, SharePoint, MS Office Suite, MS Project, Tableau, Power BI
- **Programming / Scripting Languages:** Python, R, SQL, HTML, CSS
- **Cloud Computing & Machine Learning Tools:** AWS (Redshift, Glue, EC2, S3, SageMaker etc), Databricks, Domino, Microsoft Azure Machine Learning, DataRobot, MLFlow, OpenCV, H2O, Tensorflow, Keras, Scikit-Learn, RStudio, etc.
- **Software Development Methodologies & Frameworks:** Waterfall, Agile (Scrum, Kanban)

## RELEVANT WORK EXPERIENCE

### OPORTUN INC.

*Position: Principal Product Manager, AI/ML Platforms*

Silicon Valley, CA

*Mar. 2022 to present (1 year)*

*Role: Director of FLO (Oportun's Enterprise Data & AI/ML Platform)*

*June 2022 to present (9+ months)*

- **Key impact:** Led the vision and development of a suite of microservices for automated model deployment and serving, which has reduced model deployment and serving time from 2 sprints (~6 weeks) to within 1 business day.
- Developed and executed process improvements that resulted in a 90% reliability rating for meeting delivery dates.
- Leading the development of automated drift monitoring and continuous model retraining services for production models.
- Leading the vision and development of an online feature store and a Change Data Capture (CDC) pipeline for streaming data ingestion, which enhances capabilities for near real-time Risk and Fraud model applications.
- Develop and present platform roadmap and progress to key executive leaders, including the CPO, CTO and Head of AI.
- Lead weekly stakeholder meetings to drive alignment and manage engagement across 200+ stakeholders.
- Drive clear product vision, roadmap and requirements prioritization to achieve business goals.
- Build, develop and manage cross-functional teams comprising both onshore and offshore Product Managers, Scrum Masters, Program Managers, UI/UX Designers, and Engineers (Software, Data, Machine Learning, QA, Architect, Tech Lead).

### BAYER AG

*Position: Senior Data Scientist & Product Lead*

Saint Louis, MO

*Jan. 2018 to Mar. 2022 (4 years, 3 months)*

❖ *Roles: - AI / ML Product Lead: Apr. 2020 - Mar. 2022 (2 years)*

*- Data Scientist / ML Engineer: Jan. 2018 - Dec. 2020 (3 years)*

- **Key impact:** Led 10+ cross-functional teams, including Engineers, Analysts, UI/UX Designers and Data Scientists, to develop and manage an AI/ML platform that supports global teams and reduces model time to deployment by over 90%.
- **Key impact:** Drove the development of analytics & AI solutions, which reduced the cycle time for field data collection by ~75% globally and resulted in annual savings of about 1.6 million man-hours in 2021.
- Drove the development of a UI-based ML platform that reduced the model development & prototyping time by over 50%.
- Designed machine learning (ML) systems, run experiments, fine-tuned, deployed and monitored production models for drift.
- Quickly identified risks / roadblocks and dependencies that need action and personally drove mitigation / escalation.
- Drove clear product vision, roadmap and requirements prioritization to achieve business goals.
- Developed RACI models to manage stakeholder engagement and communicate effectively to ensure continued alignment of program scope, status, risks, and dependencies.

## INSIGHT DATA SCIENCE

Manhattan, NY

### *Artificial Intelligence Fellow*

*July - December, 2017 (6 months)*

- Developed a ResNet50 CNN model for diagnosing skin diseases (actinic keratosis, basal cell carcinoma, dermatofibroma, melanoma, nevus, pigmented benign keratosis, vascular lesions) with ~87% accuracy using the [ISIC 2016 dataset](#).
- Executed the Fully Convolutional Neural Network for Cardiac MRI Segmentation by [Tran, 2017](#) with ~85% test accuracy.
- Implemented a 3D CNN action recognition model with 89% accuracy and 92% recall using Python and Keras.

## MISSOURI UNIVERSITY OF SCIENCE & TECHNOLOGY

Rolla, MO

### *PhD Research Assistant (Project Management, Machine Learning & Numerical Modeling)*    *August 2014 – June 2018 (4 years)*

- Implemented a deep learning model for machine vision in mining and construction environments using Single Shot Detection and the Tensorflow object detection API. The model achieved over 90% performance upon pilot phase testing.
- Developed and validated a novel method for calibrating DEM parameters using the XGBoost algorithm. The method combines numerical simulation of triaxial rock testing with ML to achieve prediction accuracies of up to 95.54%.
- Created and validated a 3D numerical model for studying the failure patterns of geomaterials during rock excavations.
- Developed and managed laboratory projects for over 200 undergraduate students annually.

## HUAWEI TECHNOLOGIES

Accra, Ghana

### *Position: Engineering Program Manager*

*May 2010 – September 2013 (3 years, 5 months)*

- **Key impact:** Managed ~50 subcontractor and vendor teams to plan, construct and deliver a ~\$250M telecommunication data center program from inception through permitting, execution, commissioning and closing stages.
- Led the execution of multiple Data Center projects across a range of technical domains including electrical, mechanical, architectural, structural engineering, civil construction, network systems and hardware systems.
- Effectively communicated program information appropriately to varying levels of stakeholders, including clients, senior leadership, and ensured continued alignment of program scope, status, risks, and dependencies.

## EDUCATION

### MISSOURI UNIVERSITY OF SCIENCE & TECHNOLOGY

Rolla, MO

- *PhD, Engineering (GPA: 4.0 / 4.0)* Aug. 2014 – June 2018
- *Graduate Certificate, Business Analytics & Data Science (GPA: 4.0 / 4.0)* Aug. 2016 – May 2017
- *MS, Engineering (GPA: 4.0 / 4.0)* Aug. 2014 – July 2016

### UNIVERSITY OF LEEDS

Leeds, England

- *MS, Engineering* Sep. 2013 – Aug. 2014

### KWAME NKRUMAH UNIVERSITY OF SCIENCE & TECHNOLOGY

Kumasi, Ghana

- *BS, Engineering* Aug. 2006 – June 2010