

MLEN-TOO WESLEY

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TECHNICAL SKILLS

Object-Oriented Programming

- Java
- Python
- R

Database Development

- PostgreSQL
- MySQL
- MongoDB

Data Analysis & Visualization

- Jupyter
- Pandas, NumPy
- Matplotlib, Plotly

Web Development

- HTML/CSS, JavaScript
- TypeScript, Node
- Vue, React
- jQuery, Bootstrap

Project Management

- Agile, Scrum, Kanban
- Jira, Trello, Asana

AI / ML & NLP

- PyTorch
- TensorFlow
- Keras
- SciKit
- Hugging Face

DevOps

- AWS, GCP, Firebase

PROFESSIONAL EXPERIENCE

Senior Implementation Analyst

PNC Bank / Tempus Technologies

May 2024 – Present

Auburn, IN

- Manage end-to-end client on-boarding for treasury management solutions and strengthen relationships through effective training and engagement
- Develop and optimize data management systems to enhance system reliability
- Coordinate with cross-functional teams to ensure timely and successful project delivery
- Monitor projects for regulatory compliance and mitigate associated risks

Technical Consultant

Palladium Group / MFGAP

Jun 2021 – Dec 2022

London, UK

- Supported efforts to transfer hosting and maintenance of a chain of custody and data management system for timber products to government
- Developed a framework for public consumption of forestry sector data
- Conducted needs assessments and trained ministries and agencies

EDUCATION

Massachusetts Institute of Technology

M.A.S., Data, Economics, and Design of Policy

Graduating Dec 2025

Cambridge, MA

University of Rochester

B.A., Political Science, Economics, and Philosophy

Sep 2003 – May 2007

Rochester, NY

University of California San Diego

Certificate, Machine Learning Methods

Courses in Data Structures and Algorithms and Discrete Mathematics

Sep 2023 – Dec 2023

San Diego, CA

PROFESSIONAL EXPERIENCE (CONT.)

Co-Founder, Chief Technology Officer

Nov 2013 – Jun 2021

Cookshop Food Services

Monrovia, Liberia

- Started Cookshop.biz, an award-winning food and grocery delivery app
- Recruited, interviewed, and trained over 300 employees
- Raised \$500k funding and generated \$3m in sales
- Developed agri-business projects for a digital cold transport
- Integrated payment processing systems with local banks

Program Officer

Apr 2022 – December 2022

Ministry of State for Presidential Affairs, Republic of Liberia

Monrovia, Liberia

- Lead a team of 100 employees across 3 administrative regions
- Developed business office and operational structures for multi-acre sports facilities

Principal Advisor for Program and Policy

Feb 2018 – May 2021

Ministry of Finance and Development Planning, Republic of Liberia

Monrovia, Liberia

- Co-authored the 5-year national development plan
- Liaison to the Africa Peer Review Mechanism and IMF AFRITAC
- Raised \$20m raised through United Nations Multi-Partner Trust Fund and National Road Fund for peacebuilding and infrastructure
- Improved country rank in the World Bank Doing Business Report
- Improved country policy scorecard for the Millennium Challenge Corporation
- Official visits to China, Sweden, UAE, Qatar, South Africa, Ethiopia, and Rwanda

ICT Consultant for National Accounts

Oct 2016 – Jan 2018

Ministry of Information and Culture Affairs, Republic of Liberia

Monrovia, Liberia

- Trained staff in Python, R and SQL programming for statistical analysis
- Developed data collection tools and policies for GDP rebasing
- Processed Household Income Expenditure Survey (HIES) dataset

Information Technology Expert

Jul 2012 – Dec 2017

SGS

Monrovia, Liberia

- Developed chain of custody and traceability platforms for timber products
- Validated legal compliance of over \$50m in forestry annual exports

MIS Implementation Specialist

Jul 2017 – Sep 2017

IBI, Global Insights - Local Solutions

Monrovia, Liberia

- Developed a framework for successful ICT systems in government
- Built a website development platform for ministries and agencies
- Supported digital initiatives between public-private partnerships

Technical Consultant

Jan 2017 – Mar 2017

Smile Cote d'Ivoire

Abidjan, Côte d'Ivoire

- Contributed to the start-up phases for two tech companies
- Developed initial proposals and concepts and managed contracts
- Built a client network and recruited an in-country team

- Software Developer
Storm King Analytics Jan 2015 – Feb 2016
Hudson, NY
- Developed a web application to process data
 - Rendered visualizations of social and professional networks
- Technology Consultant
iLab Liberia Jul 2013 – Aug 2013
Monrovia, Liberia
- Utilized ODK, Formhub, and Ona.io APIs to analyze data on child labor
 - Developed tools to map and visualize data on the use renewable energy
 - Operated an Ebola call center for emergency dispatch units
- Web Developer
The Marketplace Jan 2012 – May 2012
Monrovia, Liberia
- Developed the website for a business development services center and incubator
- Mobile Solution IT Expert
International Trade Centre Aug 2011 – Dec 2011
Monrovia, Liberia
- Developed the Trade at Hand mobile web application for small devices
 - Supported agriculture produce and transport services
- Lead Software Developer
Esoko Feb 2010 – Jul 2011
Accra, Ghana
- Led the software and product team for the application and database layers
 - Developed the server-side functionality of an agricultural information system
 - Utilized SMS and mobile technology for price alerts, buy / sell offers, and inventory
- Computer Programmer/Analyst
eXtensible Catalog Project, University of Rochester May 2008 – Dec 2012
Rochester, NY
- Developed digital library catalog system
 - Integrated circulation data into user interfaces for metadata discovery, authentication, and search

PROJECTS

- Agricultural Data Collection Network Jan – Sep 2021
Michigan State University and Ministry of Agriculture, Republic of Liberia
Monrovia, Liberia
- Established a country-wide network of agricultural agents
 - Increased government's capacity to monitor the food value chain
- COVID-19 Rapid Assessment System Apr – Dec 2020
National Health Institute of Liberia and Ministry of Health, Republic of Liberia
Monrovia, Liberia
- Developed USSD app for self-assessment of COVID-19 symptoms
- COVID-19 Transport Permit System May – Dec 2020
Ministry of Agriculture, Republic of Liberia
Monrovia, Liberia
- Developed USSD app for agricultural transport permits during COVID-19 lockdowns

Nutrition and Child Health Survey <i>Q&A Services Inc</i>	May – Jul 2016 <i>Monrovia, Liberia</i>
<ul style="list-style-type: none"> • Provided mobile data collection tools and technical support for field activities 	
Post-Ebola Scoping Study <i>Q&A Services Inc</i>	Dec 2015 – Feb 2016 <i>Freetown, Sierra Leone</i>
<ul style="list-style-type: none"> • Provided mobile data collection forms for a scoping survey on women empowerment 	
Voluntary Partnership Agreement <i>VPA Support Unit</i>	Jul 2015 – Jul 2017 <i>Monrovia, Liberia</i>
<ul style="list-style-type: none"> • Building ICT capacity within government and private sector for forest sector activities 	
Triage Queuing System <i>JFK Medical Center</i>	Feb – Dec 2015 <i>Monrovia, Liberia</i>
<ul style="list-style-type: none"> • Developed a real-time queuing system for triage at a government hospital 	
Elections Results Tracking Platform <i>Constellation Consulting Group</i>	Jun – Dec 2014 <i>Monrovia, Liberia</i>
<ul style="list-style-type: none"> • Developed an application for reporting election news and results via SMS • Rendered real-time visualization of the 2014 senatorial election results 	
Open Government Partnership <i>Ministry of Information, Culture and Tourism, Republic of Liberia</i>	Jun – Jul 2012 <i>Monrovia, Liberia</i>
<ul style="list-style-type: none"> • Researched openness, responsiveness, and accountability within government at information centers across the country 	

EDUCATION (CONT.)

eCornell <i>Certificate, Machine Learning</i>	Jun 2023 – Oct 2023 <i>Ithaca, NY</i>
MITx MicroMasters <i>Graduate Certificate, Data, Economics, and Design of Policy: International Development</i>	Jan 2021 – Dec 2022 <i>Cambridge, MA</i>
Pennsylvania State University <i>Courses in Computer Engineering</i>	Sep 2008 – May 2009 <i>University Park, PA</i>
University of Ghana <i>Courses in Political Science, Economics, History, Entrepreneurship</i>	Sep 2007 – May 2008 <i>Accra, Ghana</i>

RESEARCH

Sentiment Analysis of African Media <i>Independent research project, africansentiment.com</i>	Nov 2022 – Present <i>Monrovia, Liberia</i>
<ul style="list-style-type: none"> ▪ Developed a time-series dataset of African self-sentiment ▪ Used sentiment analysis techniques to gain deeper insights into African perspectives 	

Creativity, Innovation, and Entrepreneurial Development Towards Economic Growth
Senior research paper, University of Rochester

May 2008
Rochester, NY

- Thesis focuses on the link between creativity and human capital, as it relates to innovation, entrepreneurship, education, and economic development

An Alternative Approach to Innovation, Public Policy, and Entrepreneurship in Ghana Aug 2005 – May 2008
Independent research project, University of Rochester

Rochester, NY

- Courses in entrepreneurship, business, and international development
- Entrepreneurial survey of residents and business owners

The Accident of Innovation Policy
Summer research project

May – Aug 2005
Rochester, NY

- Research the roots of entrepreneurship in the United States
- Thesis focused on the relationship between creative innovation and public policy
- Analysis on how “markets for ideas” leads to entrepreneurial activity and economic growth

HONORS AND AWARDS

Obama Foundation Africa Leader, 2018

Kauffman Entrepreneurial Year Scholar, 2008

Benjamin A. Gilman International Scholar, 2007

Ronald E. McNair Scholar, 2005