Precious Kolawole

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EDUCATION

Bachelor of Computer Science Honours, *Carleton University* ⤢ 　　　　　2022 — 2025 | Ottawa, Canada
Artificial Intelligence and Machine Learning Stream. *CGPA: 11.80/12.00*

Medical Rehabilitation, *Obafemi Awolowo University* 　　　　　2020 — 2022 | Ile Ife, Nigeria
Courses: Human Anatomy, Biochemistry, and Physiology.

TECHNICAL STRENGTHS

Programming Languages
Python, JAVA, C, C++.

Software Engineering:
Operating Systems, Flask, FastAPI, PostgreSQL, MySQL, SQLite, GraphQL, Neo4J, Ruby on Rails.

Data Science & Machine Learning:
Pandas, Numpy, Matplotlib, Seaborn, Plotly, Tableau, PowerBI, Streamlit, CVXOPT, Scikit-learn, Tensorflow, Keras (computer vision).

Web & Mobile App Development
HTML, CSS, JavaScript, TypeScript, React, React Native.

PRATICAL WORK EXPERIENCE

Shopify, *Backend Engineering Intern | Google Big Query, Neo4J, Terraform.* 　　　　　05/2024 — present
- Overhauled the entire API Deprecation pipeline, versioning, and handling of API-breaking changes at Shopify.
- Improved the GraphQL Search Query Debugging experience by 30% for Merchants, 3rd-Party Developers, Partners and the whole Shopify Engineering Discipline.

Shopify, *Frontend Engineering Intern | React, TypeScript, Polaris.* 　　　　　05/2023 — 05/2024
- Launched "**Unified Analytics**" with my team, a product directly supervised by Shopify CEO Tobi Lutke, which made the top 5 Shopify products at Editions 2024. We rebuilt the data analysis pipeline across Shopify domains, all in the Web Admin. Engagement went up from 30 to 75%.
  - Converted raw merchant data into meaningful, user-friendly metrics and dashboards through various data visualization tools and frontend engineering frameworks; this empowered more than 2.1 million merchants to draw actionable insights and sculpt informed business decisions.
  - Optimized data models and prevented discrepancies across the Shopify Analytics Web Admin; this accuracy helped retain existing merchants and increased the merchant database by 55%.

Shopify Dev Degree, *Training Path | JavaScript, GraphQL, Ruby.* ⤢ 　　　　　08/2022 — 05/2023
- Interning at Shopify and contributing to making commerce better for the world while completing an accredited Computer Science degree at Carleton University.

Carleton University, *Undergraduate Research Assistant | Python, Signal Processing,* 　　　　　05/2024 — present
Dlib, Matplotlib, Tableau.
- *Paper (ongoing): **Improving Concussion Diagnosis with Visual Eye Tracking and Ocular EMG Analysis**.*
- Simultaneously, at Carleton's Office of Research Ethics, I analyzed data and built annual reports of all research activities reviewed by the Ethics Board across all departments and faculties in the university.

Carleton University, *Teaching Assistant (Discrete Structures I)* 　　　　　09/2023 — 12/2023
- Collaborated with the course instructor and 20+ other TAs to deliver an improved learning experience to 600+ students.
- Delivered weekly tutorial sessions to 40+ students, providing a review of important course content, an overview of different proof techniques, and a live demonstration of the problem-solving process.
- Provided individual feedback during office hours and on assessments, improving mathematical communication and reasoning skills.

Carleton University, *First Year Connection Mentor* ⤢ 　　　　　09/2023 — 11/2023
- Mentored **five** first-year university students in various disciplines from different countries in the first six weeks of FALL 2023.
- Facilitated guided conversations and provided Carleton resources for the mentees as they navigated their transition into university.

Nazari, 　　　　　02/2022 — 10/2022
Data Scientist, Co-Founder | FastAPI, GraphQL, Matplotlib, Seaborn, PostgreSQL. ⤢
- Handled all data wrangling experiments, sentiment modeling, and other backend engineering processes of Nazari, a dynamic opinion mining platform/app for digital assets on the Algorand blockchain with real-time analytics and data scraping from social media platforms (Twitter, Reddit, and GitHub).
- Enabled users to understand the degree of hype/fear around a specific digital asset; built Nazari with a Team of 5 with $115k funding from the Algorand Foundation.

Lendsqr, *Machine Learning Engineering Intern | Pandas, Numpy, Elastic Search,* 　　　　　02/2021 — 10/2021
Heroku, Postman, Tensorflow. ⤢
- Built a machine learning model of about 90% accuracy on transactional data to predict loan repayment. Set up model deployment pipelines on Heroku and AWS. Further, a loan repayment predictive model with human selfies was developed using CNN.
- Built an ad-hoc-email sender with Sendgrid API and Postgres SQL for firing emails automatically to about 12,000 users to retarget and remarket.

PERSONAL PROJECTS

Elixir Cancer Diagnosis AI-Based System, 　　　　　08/2020 — 10/2020
Machine Learning Engineer, Tanzania AI-Lab ⤢
- Built a Deep Convolutional Neural Network model of 89% accuracy and a web app that screens microscopic images to detect cancer, thus increasing speed and accuracy in cancer diagnosis and testing. We handed it over to doctors in Tanzania's labs for tests and usage.

Tackling Online Harassment Through Allies, *Google Women Tech Maker* ⧉   08/2021 — 09/2021
- Built a classifier model with about 80% accuracy to predict and categorize harassment from data filled out by harassment victims for further decision-making by ally organizations. This has helped eliminate physical and emotional stress in about 1000 women.

Wikimedia Data Dump, *Outreachy* ⧉   09/2020 — 12/2020
- Developed an approach by working on the Wikipedia data dump, API pages, and Protection Pages. Used Python packages in decompressing and extracting data from the dump. Did statistical analysis and sophisticated visualizations to generate insights from the data. Moreover, stacked ml algorithms were used to predict if a protection type could be edited or moved, and we achieved about 75% accuracy.

My Data Science Portfolio Website ⧉   11/2020 — 12/2020
- Designed and built my first portfolio website from scratch.

VOLUNTEERING & COMMUNITY SERVICES

Chapter Lead at Open Source Community Africa (OSCA IFE)   04/2021 — present | Ile Ife, Nigeria
An inclusive community for open-source lovers, enthusiasts, advocates, and experts within Africa, changing Africans' perception from just the billion users to the NEXT BILLION CREATORS.

Team Lead at Data Scientists Network, OAU   12/2020 — present | Nigeria
Preached AI, organized training & groomed students to be work pool-standard for recruitment.

Global Ambassador at Women Tech Network   09/2020 — present | Global
Mission to unite 100,000 women in tech to discuss things that matter. I got to learn about diversity and inclusion, also expanded my network.

Data Science Mentor at Zindi Africa Cohort 2 Program   04/2021 — 07/2021 | Africa
I'm a Data Science Mentor of 3 amazing ladies from different countries in Africa for the Zindi Mentorship Program Cohort 2 who have paid it forward by teaching other women.

Data Science Mentor at She Code Africa Mentorship Program   03/2021 — 06/2021 | West Africa
At SCA, we solely aimed at building an Africa where women are equally represented across all career roles in Technology. Our products range from those who started their journey from scratch to landing internships/jobs with companies.

Features

Techsploration   **Ventures Africa**   **Piggyvest**   **TEDx Speaker**

AWARDS

Google Generation Scholar'22, *Google* ⧉   05/2022 — present | US & Canada
- 2022 Academic Scholarship Winner. This is given to students who have demonstrated a passion for technology and academic excellence and have proven themselves as exceptional leaders and role models.

Cadence Diversity In Tech Scholar'23 ⧉   11/2023 — present | US & Canada
- Honours scholars' impressive academic achievements and drive to shape the future of technology.

Palantir Scholar'23, *WIT Scholarship, North America* ⧉   05/2023 — present | US & Canada
- Recognizes exceptional women in undergraduate studies majoring in CS across the US, Canada, and Mexico.

Clarence C. Gibson Scholar'23, *Carleton University* ⧉   07/2023 — present | Ottawa, Ontario
- Recognizes a high-achieving student with exceptional academic standing.

Grace Hopper Scholar' 23, *AnitaB.org* ⧉   06/2023 — present | Global
- Honours students for exemplary accomplishments and positive impact in the field of technology.

Road To Google Developer Expert, *Google* ⧉   03/2022 — present
- On the path toward becoming a Google Developer Expert in Machine Learning. I got prepped through 3 months of mentoring experience to submit an application for the GDE Program.

Orangesoft Scholar'21, *First Runner Up* ⧉   12/2021 — present | US & Canada
- Recognizes and rewards the academic excellence of high-performing, low-income female university students pursuing STEM, or other technology-related studies and careers.

Ms. Algorithm Award, *Data Science Nigeria 2020 Bootcamp* ⧉   10/2020 — present | Nigeria
- In recognition of "the most outstanding female starlet in Nigeria's AI community who not only strives to be the best in Artificial Intelligence but also invests in others through knowledge sharing."

Mentor of the Year, Global Ambassador & Global Speaker Award,   11/2020 — present
Women Tech Network ⧉
- Recognizes and celebrates the best Data Science mentor who has thoroughly impacted many others through mentorship.

Women Tech Maker Hackathon, *3rd Place Winner* ⧉   08/2021 — present | Nigeria
- I am a winner of the WTM Nigerian Women Online Safety Hackathon where I created technical solutions using Google products to solve the problem of violence against women online.