Oluwadabira Omotoso

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EDUCATION

Bachelor of Science - *Computer Science Major,* Data Science Minor April 2026
University of British Columbia | GPA: 4.33/4.33
Relevant Coursework: Computer Graphics, Machine Architecture, Discrete Structures in Computing, Data Structures, Software Engineering, Analysis of Algorithms, Web Programming, HCI

EXPERIENCE

Undergraduate Teaching Assistant | University of British Columbia | *Department of Computer Science, Mathematics, Physics & Statistics* | Sep 2022 – Present

- Provided comprehensive academic support and guidance to students in the assigned course, resulting in improved understanding and achievement of learning objectives.
- Evaluated student performance by consistently grading exam, tests, and assignments, offering detailed feedback on mistakes and areas of improvement which facilitated learning progress.
- Performed essential data entry tasks and various administrative responsibilities related to the course which ensured the production of accurate and organized records.

Data and Automation Intern | First Capital REIT, Canada
May 2024 – Aug 2024

- Automated processes using Automation Anywhere, Power Automate, SharePoint, and other tools.
- Used SQL to extract data from operational databases to support process automation efforts.
- Supported the IT team with ad-hoc duties and projects as assigned.

Research Assistant | RISE Germany Intern, HOCHSCHULE BONN-RHEIN-SIEG, GERMANY
May 2023 – Aug 2023

- Conducted a meticulous literature review on touch-based continuous authentication, adhering to scientific standards and providing valuable insights for further research.
- Developed and deployed a functional prototype application for touch data collection on mobile devices.
- Performed a pilot study to analyse touch gestures across diverse application contexts, revealing insights into their differences.
- Conducted comprehensive analysis of touch gestures, identifying differences and similarities across different applications to inform advancements in touch-based authentication systems.

Walmart Global Tech Virtual Experience Program Participant | Aug 2022

- Improved operational efficiency by implementing a priority-based order sorting system.
- Enhanced data flow through the design of a streamlined data processing pipeline.
- Successfully met complex requirements by creating a robust relational database.
- Enabled seamless data management through the development of a data extraction and transformation script.

JP Morgan Chase & Co Software Engineering Virtual Experience Participant | July 2022

- Resolved critical issues by fixing a malfunctioning client's data feed script, ensuring the uninterrupted flow of accurate and up-to-date data within the system.
- Enhanced user experience and real-time information availability by successfully fixing the client-side web application to automatically display the latest data from the server, enabling seamless access to updated information for improved decision-making and user engagement.

PROJECTS

AID-FINDER: An app designed to connect users with essential community services such as food banks and homeless shelters

Sep 2023- Dec 2023

- Used Android Studio and Java to develop the application, leveraging Google SDK tools and dependencies to ensure seamless integration.
- Spearheaded the design and execution of controlled experiments, conducting a pilot study involving real users to gather valuable insights.
- Implemented heuristic principles to enhance user interaction, actively soliciting and incorporating user feedback to continually refine and optimize the application.

DATABASE-ENABLED WEBSITE

Sep 2023- Dec 2023

- Leveraged Node.js, HTML, and CSS to design and implement the client-side of the website, ensuring an intuitive and visually appealing user interface.
- Implemented SQL Server and Docker Compose to establish a robust backend infrastructure, enabling continuous and efficient querying of data from the database.
- Implemented transactional mechanisms to enhance user safety and ensure the integrity of data interactions on the website.
- Implemented security measures, including tools to proactively prevent SQL injection attacks, fortifying the website against potential vulnerabilities, and ensuring a secure user environment.

INVESTIGATING THE FACTORS CONTRIBUTING TO LITERACY RATES: A DATA-DRIVEN APPROACH

Jan 2023 – April 2023

- Conducted in-depth analysis of datasets to explore the perception and importance of education, aiming to bring transparency and uncover social mis constructs related to literacy and socioeconomic factors.
- Used Python, Jupyter Notebook, and data analysis tools, including method chaining, to extract meaningful insights and trends from the dataset.
- Leveraged Tableau to visualise and present findings, effectively communicating the impact of socioeconomic factors and gender gaps in literacy rates and the need for continued efforts to promote equitable access to education.
- Employed analytical skills and data analysis techniques to identify and address issues of inequality in education, working towards the creation of a more just and equitable society.

SKILLS

Java	**React**	**MATLAB**
Python	**Typescript**	**R**
SQL	**JavaScript**	**HTML and CSS**

AWARDS

Dean's List | 2022 & 2023

Awarded for outstanding academic achievement and demonstrating academic excellence.

Irvine K Barber Faculty of Science International Student Award | 2022 & 2023

Awarded for demonstrating strong academic achievement and making scholarly contributions within the field of Computer Science

COMMUNITY INVOLVEMENT

Artificial Intelligence Club, Vice President| Sep 2023 – Present

Seamless Fashion Club, President | Sep 2023 – Present