

# OLUWADABIRA OMOTOSO

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[Linkedin](#) | [GitHub](#)

## EDUCATION

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### University of British Columbia

Honours in Computer Science Major/ Data Science Minor Bachelors

GPA: 4.33/4.33

April 2021 - Present

## EXPERIENCE

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### Citi | Software Engineer Intern

May 2025 - Aug 2025

- Resolved UI bugs on a trading platform built with Angular, enhancing user experience and interface reliability
- Developed a Bash script to automate the release management process, significantly reducing manual effort and minimising deployment errors
- Built a full-stack application using the MEAN stack (MongoDB, Express.js, Angular, Node.js) to streamline and integrate the use of the automation script, improving workflow efficiency

### University of British Columbia | Undergraduate Teaching Assistant

Sep 2022 - Apr 2025

- 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.

### University of British Columbia | Undergraduate Research Assistant

Oct 2023 - Apr 2024

- Conducted comprehensive research on the effectiveness of healthy eating games and apps, providing valuable insights that informed the applications features and design.
- Designed an intuitive and user-friendly UI/UX for a web application, empowering users to make sustainable grocery choices, resulting in increased user engagement and satisfaction.
- Developed a robust web application using the MERN stack (MongoDB, Express.js, React, Node.js), enhancing functionality and improving user experience.
- Successfully created and deployed the application on Android, expanding its accessibility and user base, leading to broader adoption and positive user feedback.

### Hochschule Bonn-Rhein-Sieg | Research Assistant

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.

## SKILLS

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Programming Languages:	Java, Python, PHP, R, Processing.js, WebGL, C#, Angular
Libraries/Frameworks:	JavaScript, React, Node.js, Langchain, Unity, TypeScript, PyTorch, TensorFlow
Tools / Platforms:	Git, VS Code, Docker
Databases:	SQL, Mongo DB

## PROJECTS / OPEN-SOURCE

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### Honours Thesis

*Langchain, Python, Jupyter Notebook, TypeScript, AI/ML*

- Performed a comprehensive literature review to inform and support research and thesis development.

- Developed a custom tool leveraging Langchain and LLM Agents to streamline workflow processes.
- Conducted offline A/B testing with the tool, resulting in the creation of a fully functional prototype.

#### Chatbot | [Link](#)

*Java, AIML, Alice*

- Created a chatbot using alicebot and AIML patterns
- Facilitated workshops teaching students how to create their own chatbot

#### The Learning Layers | [Link](#)

*JavaScript, React, CSS, PHP, HTML, MongoDB*

- Developed a web application using the MERN stack (MongoDB, Express.js, React.js, Node.js) to enable professors and students to view, receive, and answer course content.
- Facilitated weekly scrum meetings to enhance project efficiency and ensure adherence to agile methodologies.
- Used Jest for unit testing, ensuring comprehensive coverage and handling of all edge cases.

#### CERTIFICATIONS

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- Software Engineering Virtual Experience Participant - **JP Morgan Chase & Co**
- Global Tech Advanced Software Engineering Virtual Experience - **Walmart Global Tech**

#### HONORS & AWARDS

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- Won Faculty of Science International Student Award at University of British Columbia
- Dean's List