

OLUWADABIRA OMOTOSO

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

EDUCATION

University of British Columbia

Honours in Computer Science Major / Data Science Minor Bachelors

GPA: 4.33/4.33

April 2021 - Present

EXPERIENCE

University of British Columbia | Undergraduate Research Assistant

Sept 2025 - Present

- Conducted comprehensive research on the effectiveness of LLM-as-a-Judge on code vulnerabilities.
- Identified and analysed biases in LLM-based vulnerability detection, contributing to more fair and reliable AI systems.
- Designed and executed empirical studies on a computational notebook bug-detection tool, validating its accuracy and robustness.

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.

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

Programming Languages: Java, Python, PHP, R, Processing.js, WebGL, C#, Angular

Libraries/Frameworks: JavaScript, React, Node.js, Langchain, Unity, TypeScript, PyTorch, TensorFlow, AJAX

Tools / Platforms: Git, Docker, Android Studio, Tableau, Jira, BitBucket

Databases: SQL, Mongo DB

PROJECTS / OPEN-SOURCE

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

- Undergraduate Certificate in Education Studies - University of British Columbia.
- Software Engineering Virtual Experience Participant - **JP Morgan Chase & Co**
- Global Tech Advanced Software Engineering Virtual Experience - **Walmart Global Tech**

HONORS & AWARDS

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