

# YANN GBAGUIDI

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## Education

### University of Toronto

Expected May 2025

*Bachelor of Science in Computer Science, Software Engineering*

*Toronto, ON*

- **Relevant Coursework:** Data Structures, Software Design, Algorithms Analysis, Systems Programming, Machine Learning, Web Applications, Operating Systems, Computer Organization.

## Work Experience

### Ontario Public Services

May 2023 – September 2023

*Web Developer Intern @ Treasury Board Secretariat*

*Toronto, ON*

- Updated the TBS' Freedom of Information Tracker web app with Node.js, HTML5, CSS, Azure SQL databases, and JSON, leading to a substantial improvement in efficiency.
- Demonstrated proficiency in JavaScript and Node.js for managing SharePoint site permissions and adding webparts, resulting in a stellar ticket resolution rate of 100% and improved user interactions.
- Explored ways to automate the delivery of daily report of test results to team members.

## Projects

### Countrynator | Python, Flask, Werkzeug, REST API

December 2022

- Collaborated with 2 classmates to architect 'Countrynator', a Flask and SQLite-based web application, that offers a personalized geography learning experience through user authentication and session management
- Engineered a user input validation function to ensure secure and appropriate user registration, contributing to the robustness of the application.
- Implemented a data loading mechanism that retrieves comprehensive country information from a JSON dataset during initialization, optimizing data retrieval and enhancing the user learning experience.

### Course Management App | Java, Android Studio, Firebase, Graph Traversals

April 2023

- Worked with 5 other teammates to build an Android App that allows students to plan their university pathway.
- Processed the students' info to help make the best timeline of courses to take to graduate, taking in account prerequisites, exclusions and sessions.
- Devised an object-oriented database architecture with Firebase, enabling secure authentication and efficient management of user information and course data for the application.

### Online Learning Platform | React, Node.js, JavaScript, MongoDB, WebSockets, Rest API, Agora

October 2020

- Teamed up with 2 classmates to build a learning web app that allows professors to hold online classes with students via a video call platform.
- Constructed a secure video conferencing feature using WebRTC and Agora, incorporating real-time audio/video streaming, interactive chat functionality, and efficient room management, thereby facilitating seamless communication between teachers and students.
- Enhanced the web app's security through HTTPS, secure cookies, password salting, backend operations, and regular testing, thereby fortifying against potential cyber-attacks and ensuring robust data integrity.

## Technical Skills

**Languages:** Python, Java, C, HTML/CSS, JavaScript, SQL, R

**Developer Tools:** VS Code, Eclipse, Google Cloud, Selenium, Android Studio, LINUX, Git, Postman, JUnit, Jira

**Technologies/Frameworks:** Linux, Jenkins, GitHub, WordPress, React, Jest

## Leadership / Extracurricular

### African Student's Association

Fall 2023 - Present

*Director of Social Events*

*University of Toronto*

- Planned and coordinated social events for over 100 African students, resulting in an increase in membership and a improved satisfaction rate.

### Google Students Developer Club

Fall 2022 - Present

*Member*

*University of Toronto*

- Participated in monthly workshops and events to learn and apply Google developer technologies, such as Google Cloud, Firebase, Flutter, and TensorFlow.