

## CLARISSE ILIBAGIZA UMULISA

ilibagizaclarisse@gmail.com

+1(412)-708-8750

[GitHub](#)

[LinkedIn](#)

Pittsburgh, PA.

---

### SUMMARY

Recent graduate with a bachelor's degree in computer science seeking an opportunity to develop scalable and responsive software and web applications to satisfy the needs of end users. My qualifications include coursework in Computer Science in Algorithm Design, Computer Security, Databases & Operating Systems, as well as experience in front end development and user experience support. Passionate about learning from senior engineers while sharing ideas in an environment that encourages personal development.

### SKILLS

Java, Servlet, C++, HTML/CSS, SQL, GraphQL.

Scripting Languages: MATLAB, R, JavaScript, NodeJS, ReactJS, Python, PowerShell. Bash

AWS Lambda, Git/GitHub, Visual Studio, Spring Boot, Spring Hibernate, Jira, Jest, Linux System, Window System

---

### EXPERIENCE

#### Software Engineer Intern,

##### T-HAULER

February 2022 – August 2022 Pittsburgh, PA

- Developed the Helpers and Drivers feature of T-Hauler web application using Java, React.js, SQL, and AWS.
- Participated in daily stand-ups running in an agile environment; completed user stories/bugs in GitHub within the allocated time.
- Contributed to the development of technical documentation for the application.
- Improved the launch process of the app on Google Play and Apple Store by creating a Batch file with a list of commands that could be executed in the terminal to create the app's binary, archive it and submit it to the App Store.
- Designed and implemented software unit tests, integration tests and system tests using Jest to improve the quality of the app and deploy new features.

#### Technology Support Intern,

##### AARP FOUNDATION EXPERIENCE CORPS

March 2021- December 2021, Washington, DC

- Created a new Alexa skill to facilitate AARP Staff and affiliates to pull more than 1000 students' and tutors' data from salesforce by using Node.js Amazon AWS Lambda services, and Salesforce API.
- Created a webpage to upload tutoring videos on Vimeo for elder tutors and local affiliated staff across the country in 22 programs using HTML, CSS, React.js, Node.js, and Vimeo API.
- Supported the Experience Corps Unified Platform development team by coordinating the collection of user data from 30 tutors and 20 students using the Unified Platform; data collected included user testing, user surveys, and user feedback.
- Gained experience using Salesforce, AWS, Vimeo API, React.js, Node.js, HTML, and CSS, Bootstrap, Rest API.

#### Research Assistant

##### DUQUESNE UNIVERSITY, EVL LABS

April 2019 - May 2020, Pittsburgh, PA

- Performed independent research to determine how the Java Graphical Authorship Attribution Program (JGAAP) may be used to analyze author profiling in various African languages using 30 Kinyarwanda newspapers and blogs.
- Analyzed 100 Corpus for Indiana deception detection using N-grams, to identify the best practices for performing authorship attribution experiments by using a C++ scripts that created a feature matrix of N-gram counts.
- Submitted a paper profiling "Writing style in Kinyarwanda" for Chicago Colloquium on Digital Humanities and Computer Science (DHCS). The paper was accepted after rigorous peer review and presented at the colloquium.

---

### PROJECTS

#### Online Bookstore Application, Duquesne University, Spring 2022

- Collaborated with a team of three to develop an online bookstore application using Java servlet, MySQL, HTML, and CSS.
- Designed the database schema and implemented the database management system using MySQL.
- Implemented the user interface using HTML and CSS, and the business logic using Java.
- Conducted testing and debugging to ensure the application met the required specifications.

#### Password Cracker Tool, System Design Final Project • Spring 2021

- Developed a password cracking tool in C++ that used brute force to crack passwords of various lengths and displayed the time it took to crack them. Used a dictionary and hash table.
- Reduced time used to crack a password by 40% by adding a method to use the password hash as a reference, and only comparing the partial hash to the original hash, instead of re-hashing the guess.

---

### EDUCATION

#### Bachelor of Computer Science

Minor in Mathematics • Duquesne University • Pittsburgh, PA • 2022 • 3.67

---

### INVOLVEMENT

#### Alliance for Refugee Youth Support & Education

Camp Counselor and Translator • June 2020 - August 2020