

Clarisse Ilibagiza Umulisa

📍 ilibagizaclarisse@gmail.com

+1(412)-708-8750

[GitHub](#)

[LinkedIn](#)

Pittsburgh, PA

SUMMARY

Dedicated Software Engineer with a proven record of designing and implementing applications. Key Qualifications include Computer Science experience in Algorithm Design, Computer Security, Database & Operating Systems, Embedded Systems, Data management and end-user support. Looking for an opportunity to grow and a role that will provide exposure to the best application development and design concepts.

SKILLS

Java, C++, HTML/CSS, SQL

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

Junior Software Engineer

T-HAULER

February 2022 -Present, Pittsburgh, PA

- Deployed the T-Hauler application from beta to production.
- Participated in daily stand-ups running in an agile environment; completed user stories/bugs in GitHub within the allocated time
- Used Jira to lead a weekly 1-hour sprint planning
- 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 and Amazon AWS Lambda services.
- 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 and Node.js.
- 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, 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

Password Cracker Tool

System Design Final Project • April 2022 - April 2022

- 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.

SET-UID Lab

Computer Security lab Project • September 2021 - September 2021

- Demonstrated how environmental variables affect the behavior of Set-UID programs by using the Linux system and different commands.
- Analyses the use of path environment whereby changing the path environment variable and creating a shell program with SET-UID, the attacker can run the program with root privilege.

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