

Elysée NIYIBIZI

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SUMMARY

• Results-driven Full Stack Software Engineer with keen interest and focus on **Back End Development!**. Proficient in C programming, Python, Flask, Node.js, React.js, MySQL, RESTFUL APIs, Bootstrap, HTML, CSS, and DevOps, consistently delivering innovative solutions that optimize performance and enhance user experience. Skilled in problem analysis, critical thinking, teamwork, and decision-making.

Skills

- Python | JavaScript | TypeScript | C++ | C | MongoDB | SQL | MYSQL | Node | Express | React | Vue | jQuery | NoSQL | Linux
- HTML | CSS | Cloud Computing | Unit Testing | Flask | Laravel | OOP | Unity 2D | Game Development | TeamWork
- Frontend | Backend | Full-Stack | English & French – *All professional proficiency or above.*
- Valid Driving License: *Category B.*

Experience

YouTuber

[YouTube](#)

11/2023 - Current

- Niyibizi Elysée, Software Engineering, SWE Skits & Entertainment, Tech Life, Coding, Career Advice, LeetCode.

Software Engineer Intern

[ALX Africa](#)

Nairobi, KENYA

02/2023 - 04/2024

- To align with the low-level capabilities of **C** using structures, file I/O, bit manipulation, and linked lists to improve system performance by emphasizing optimized memory allocation and usage, developed a sophisticated shell interface using **C** programming. This interface mirrored the functionalities of established shells like **bash** or **sh**.
- Explored various **C** concepts such as Trees, Hashing, Data structures and Algorithms, and linked lists.
- Demonstrated expertise in full-stack development, incorporating **Python**, **SQLAlchemy**, **HTML/CSS**, **Web infrastructure design**, and **test-driven development** principles to replicate a popular platform's functionalities effectively.
- Demonstrated expertise in **DevOps** methodologies, automated server configuration, load balancing, and SSL certificate integration, ensuring a secure, high-performance infrastructure at ALX Africa.
- Continuous Integration/Deployment Pipeline Integration, pull requests, code reviews, load/stress testing, unit/integration/e2e testing

ALX-PROJECTS

[SIMPLE SHELL](#)

Using **C** programming language concepts like linked lists, bit manipulation, file I/O, and data structures, developed a shell interface, mirroring the functionalities of established shells such as **bash** or **sh**. Emphasized optimizing memory allocation and usage to enhance system performance in alignment with the low-level capabilities of **C**. Some of the key features of the program are the ability to navigate between directories, the ability to add new paths in the **PATH** env, and the ability to create aliases.

[MONTY BYTECODE INTERPRETER](#)

Using the concept of stacks (LIFO) and queues (FIFO) in **C** programming language, built a Monty interpreter that reads and executes Monty bytecode files. Some of the key functionalities of the program are the ability to interpret bytecode commands such as **push**, **pop**, **pint**, **pall**, **add**, and **swap**.

[AIRBNB CLONE](#)

Created a comprehensive **Airbnb clone**, employing **HTML**, **CSS**, **Python**, and **SQLAlchemy** to replicate platform functionalities, showcasing proficiency in front-end development, back-end architecture, and diverse database management systems.

ADDITIONAL SKILLS

- **Git & Github** | **Linux** | **Data Structures and Algorithms** | **Bash Scripting** | **Debugging** | **Figma** | **Technical writing.**

Education

Bachelor of Science

[University of Kigali](#)

Kigali, Rwanda

05/2023 - 05/2027

- Major in Computer Science

Advanced Level Certificate

[Lycée de Kigali](#)

Kigali, Rwanda

01/2018 - 10/2021

- Physics, Chemistry & Mathematics(PCM)

Personal-Projects

- **THE-MAZE**: Creator of a 3D maze game. Similar to Wolfenstein or Doom. Link to [YouTube](#) Gameplay (11/2023)
- **NOTE-APP**: Designed to allow users to create, view and delete notes. Link to [NOTE-APP](#)(ALX Final Project) DEMO (03/2024)

Awards

- Certificate of Completion: alx_africa | Software Engineering([LINK](#)) (04/2024)