

**UKWITEGETSE Valens**

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Current Resident: Kigali City, Nyarugenge District

Nationality: Rwandan

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GitHub: <https://github.com/ukvalens>

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**OBJECTIVE**

A highly motivated Computer Engineering student seeking a challenging Software Development Internship to apply technical expertise and problem-solving skills in a real-world setting. Eager to contribute to innovative software solutions and further develop my programming, team collaboration, and leadership abilities.

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**EDUCATION****Bachelor's Degree in Computer Engineering**

University of Rwanda, Huye Campus & Nyarugenge Campus | 2022 – Present

- **Relevant Coursework:**

- Data Structures, Operating Systems, Software Engineering, Algorithms
- Database Systems, Web Development, Computer Networks

- Digital Communication, Microprocessors, Cloud Computing
- Artificial Intelligence & Machine Learning, IoT
- Network Security, Cryptography, Embedded Systems
- **Academic Achievements:**
  - Dean's List for Outstanding Performance in Programming & Systems Design (2023)
  - Leadership Role in the University's Computer Engineering Club (2023)

### **Advanced Secondary School (A2)**

GS GICURA | 2018 – 2021

- **Diploma:** Mathematics, Computer Science, and Economics (MCE)

### **Ordinary Level (O-Level)**

GS GICURA | 2015 – 2017

- Ordinary Level Result Slip

### **Primary School**

GS GICURA | 2009 – 2014

- General Primary Result Slip

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## **TECHNICAL SKILLS**

### **Programming Languages**

- **Python:** Used for web development (Flask/Django), data analysis (Pandas, NumPy), and machine learning (scikit-learn).
- **C & C++:** Key for embedded systems, IoT, performance-critical applications, and game development.
- **Java:** Android mobile app development, back-end development, and enterprise applications.
- **PHP:** Backend web development, server-side scripting, database integration.
- **JavaScript:** Front-end web development, interactive user interfaces with React.js.
- **HTML, CSS:** Front-end design, responsive layouts, and web accessibility.

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### **Web Development & Databases**

- **React.js:** Building dynamic user interfaces with reusable components.

- **Node.js & Express:** Full-stack JavaScript development for scalable web applications.
  - **MySQL & PostgreSQL:** Relational database management systems (RDBMS), SQL queries, stored procedures.
  - **MongoDB:** NoSQL database, used for flexible and scalable data storage.
  - **Firebase:** Real-time database and cloud storage for web and mobile applications.
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### Cloud Computing & IoT

- **AWS:** EC2 (virtual servers), S3 (storage), Lambda (serverless), CloudWatch (monitoring).
  - **Google Cloud Platform:** Compute Engine, Firebase.
  - **IoT Platforms:** Arduino, Raspberry Pi (with sensors, actuators, and automation projects).
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### Networking & Security

- **Networking:** TCP/IP, DNS, DHCP, VPNs, HTTP/HTTPS.
  - **Security:** Firewalls, encryption, network security protocols, secure coding practices.
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### CERTIFICATIONS

**Data Science Certificate** – Coursera

**IT Essentials Certificate** – Cisco Networking Academy

**Cybersecurity Certificate** – University of Maryland

**CCNA: Introduction to Networks Certificate** – Cisco Networking Academy

**AWS Certified Solutions Architect - Associate** – Amazon Web Services (AWS)

**Machine Learning with Python Certificate** – IBM

[click here to access certificates](#)

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### WORK EXPERIENCE

#### Computer Science Teacher

GS GICURA | Since 2021

- Developed lesson plans on basic programming, algorithms, and digital literacy.
- Conducted hands-on coding sessions and guided students through coding challenges.

- Collaborated with the school to design curriculum for computer science subjects.
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## Freelance Software Developer

Self-Employed | 2022 – Present

- Developed several full-stack web applications, mobile apps, and database systems.
  - Projects:
    - **Mobile App for Elderly Users:** Designed user-friendly mobile applications focused on accessibility and navigation for elderly individuals.
    - **Healthcare Management System:** Built a web-based application to manage patient records, appointments, and medical history using MySQL, PHP, and JavaScript.
    - **E-Commerce Platform:** Created a dynamic and responsive e-commerce website with integrated payment gateway and order tracking system.
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## PROJECTS (DETAILED)

### Mobile Application for Elderly Users

- **Overview:** A mobile app designed to assist elderly users with navigation, daily reminders, and emergency assistance.
  - **Technologies Used:** Java (Android), Firebase (for user authentication), Android Studio.
  - **Challenges:** Ensuring ease of use with minimal user interaction.
  - **Outcome:** Positive feedback from initial testers, focusing on usability.
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### Web-Based Healthcare Management System

- **Overview:** A platform for managing healthcare records, appointments, billing, and medical histories.
  - **Technologies Used:** HTML, CSS, JavaScript, MySQL, PHP, Bootstrap.
  - **Challenges:** Ensuring secure handling of sensitive health data.
  - **Outcome:** System scaled successfully for small clinics with data encryption for security.
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### E-Commerce Platform

- **Overview:** A complete e-commerce site with product management, shopping cart, and order processing.
  - **Technologies Used:** PHP, MySQL, JavaScript (AJAX), HTML, CSS, Bootstrap.
  - **Challenges:** Managing user data securely and integrating with external payment services.
  - **Outcome:** Improved online shopping experience with enhanced security features.
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## RESEARCH AND REPORTS

### Research Project: Enhancing Access to Real-Time Service Information in Kigali

- **Objective:** To investigate how technology can improve access to public service data in Kigali.
  - **Findings:** Identified gaps in real-time service delivery and proposed a mobile app solution.
  - **Impact:** Contributed to discussions with local authorities about potential smart city solutions.
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## PERSONAL SKILLS

### Leadership

- Demonstrated leadership in group projects and university clubs, including organizing coding boot camps and seminars.

### Teamwork

- Collaborated with teams on diverse projects, ensuring efficient communication and a collective approach to problem-solving.

### Problem-Solving

- Strong analytical skills, applied in debugging and optimizing code in complex systems and applications.

### Time Management

- Balanced multiple academic, freelance, and extracurricular activities while maintaining excellent performance.

### Communication

- Clear communication skills, both verbal and written, with experience in presenting technical topics to non-technical audiences.
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## HOBBIES AND INTERESTS

- **Reading:** Continually exploring new topics related to technology, entrepreneurship, and software development.
- **Research & Learning:** Constantly learning new programming languages, frameworks, and technologies (e.g., cloud services, machine learning).
- **Programming Projects:** Always experimenting with new coding challenges and participating in hackathons.
- **Sports:** Football and volleyball, often participating in university team events.
- **Music:** Passionate about listening to various genres, focusing on how music production integrates with technology.

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## REFERENCES

1. **UWIMBABAZI Jurdas**  
Headteacher, GS GICURA  
Phone: 0788656553
2. **Dr. DUKUNDIGENA Emmanuel**  
Medical Doctor, RUHENGARI Health Center  
Phone: 0782564501
3. **Alexander NGENZI**  
Lecture and Head of Department, University of Rwanda  
Email: alexandrengenzi@gmail.com

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## Declaration

I hereby declare that the information provided in this resume is accurate and true to the best of my knowledge.

Signed: **UKWITEGETSE Valens**