Principie Cyubahiro

Software Engineer | Python Backend Developer | IT Specialist
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OBJECTIVE PROFESSIONAL PROFILE

Proactive Software Engineer with hands-on experience in Python backend development, data management, and building scalable digital solutions. Skilled in developing RESTful APIs, working with relational databases, automating data workflows, and applying data structures and algorithms to solve real-world problems. Experienced in supporting organizational systems through technical troubleshooting, database maintenance, and web updates. Expert at using Git, SQL, and Python-driven tools to build efficient applications, improve data quality, and support decision-making processes. Currently pursuing a BSc (Hons) in Software Engineering with a strong academic record (CGPA: 4.50/5) and committed to delivering reliable, well-engineered solutions across backend, data, and QA domains.

EDUCATIONAL BACKGROUND

Bachelor of Science in Software Engineering
African Leadership University | Kigali, Rwanda | May 2024 - April 2027
Current CGPA: 4.50/5
Relevant Coursework: Database Structure and Algorithms, Python and Database Programming, Enterprise Web Development, Communicating for Impact...

Advanced Level Certificate (A2 Diploma)
National Examination and School Inspection Authority (NESA) | Rwanda | January 2017 - August 2023
Combination Courses: Mathematics, Physics, and Geography
Grades: 60/60

WORK EXPERIENCE

IT & Web Support Officer
Raise Them Foundation (RTF) | Kigali, Rwanda | April 2024 - Present

- Provide technical support for staff and partner organizations by troubleshooting system issues, managing user accounts, and ensuring high availability of digital tools and platforms.
- Maintain and update internal databases, improving data accuracy and integrity for program reporting and operational decision-making.
- Develop spreadsheets, digital templates, and lightweight dashboards that streamline workflow tracking, documentation, and monitoring activities.
- Support the organization's web presence by updating content, resolving minor backend issues, and ensuring website functionality and accessibility.
- Collaborate with cross-functional teams to improve digital processes, enhance data organization, and strengthen system efficiency.

Data Manager
Cooperative KAJU | Eastern, Rwanda | January 2025 – Present

- Collect, validate, and update operational datasets including seedling production, distribution records, inventory logs, and cooperative assets.
- Design and manage Excel-based data systems, digital forms, and dashboards that improve data entry quality and reduce manual errors for field teams.
- Generate weekly analytical reports that support planning, resource allocation, and community outreach initiatives.
- Maintain beneficiary databases and ensure data conforms to reporting standards required by government entities and partner NGOs.
- Enhance data workflows by organizing datasets, improving structure, and establishing consistent data management practices.

Marketing & Outreach Chair

African Leadership University | Kigali, Rwanda | September 2024 - October 2025

- Facilitated digital literacy by training students in Microsoft Office, Google Workspace, and core productivity tools, enabling smoother academic and extracurricular activities.
- Developed clear tutorials, manuals, and self-guided technical materials that reduced individual support requests and enhanced independent learning.
- Coordinated outreach campaigns, events, and communication strategies while collaborating with faculty and student leadership to strengthen community engagement.

Teaching Assistant

Inspire, Empower and Educate Rwanda | Kigali, Rwanda | December 2023 - July 2024

- Managed academic data by recording student marks, attendance, and assessment results using structured Excel sheets, improving record accuracy and accessibility.
- Supported teachers in facilitating class activities and guiding students, particularly in tasks requiring digital tools or technical assistance.
- Assisted with documentation, reporting, and organizing student learning materials to support smooth program operations.

PROJECTS

Personal Portfolio Website

Tech Stack: HTML, CSS, JavaScript, Git, GitHub
Live Demo: https://principiecyupe.github.io/principie/
GitHub: https://github.com/PrincipieCyupe/principie

- Developed a fully responsive, mobile-friendly personal portfolio to showcase engineering projects and technical skills.
- Implemented modular JavaScript components and organized code structure for maintainability.
- Utilized Git/GitHub version control, project management , and deployment workflow.

Tegura Youth Initiative (TYI) Platform

Tech Stack: Flask, Python, SQLite, PostgreSQL, Tailwind CSS, HTML, JavaScript, Git, GitHub
Live Demo: https://tyi.principie.tech
GitHub: https://github.com/PrincipieCyupe/tyi

- Built and deployed a platform empowering rural youth through mentorship, entrepreneurship training, and startup competitions.
- Implemented backend logic for authentication, user management, resource access, and submission workflows.
- Integrated relational databases (PostgreSQL for production, SQLite for local development) to support scalable content and user data.

E-vura platform

Tech Stack: Flask, Python, SQLite, PostgreSQL, Tailwind CSS, HTML, JavaScript, Git, GitHub
Live Demo: https://evura.onrender.com
GitHub: https://github.com/PrincipieCyupe/evura

- Developed a platform enabling chronic illness patients to book medical appointments and maintain long-term digital health records.
- Implemented RESTful API endpoints for secure medical record retrieval, updates, and consultation scheduling.
- Designed a backend architecture that supports continuity of care across multiple clinics

Opportunity Tracker Platform

Tech Stack: React, HTML, CSS, JavaScript, Git, GitHub
Live Demo: https://opportunity-tracker.principie.tech/
GitHub: https://github.com/PrincipieCyupe/opportunity-tracker

- Developed a platform helping users track job and scholarship applications, deadlines, and completion progress.
- Implemented automated reminders and a structured workflow to reduce abandoned or incomplete applications.
- Created reusable React components and maintained organized frontend state logic.

Finance Tracker Platform
Tech Stack: React, HTML, CSS, JavaScript, Git, GitHub
Live Demo: https://ftracker.principie.tech/
GitHub: https://github.com/PrincipieCyupe/principie-tracker

- Built a financial tracking tool enabling users to set monthly income, record expenses, and monitor spending patterns.
- Designed a clean, intuitive UI to support seamless data input and real-time updates.
- Used React component architecture and state management to implement dynamic financial summaries.

Mobile Data Analysis & API Services
Tech Stack: Python, FastAPI, REST APIs, MySQL, Postman, Git, GitHub
GitHub: https://github.com/PrincipieCyupe/MOMO-data_analysis

- Built FastAPI-based endpoints for processing and analyzing large mobile datasets.
- Designed and optimized MySQL schemas to support efficient storage, retrieval, and analysis of high-volume data.
- Performed exploratory data analysis in Python and validated API functionality using Postman with structured testing workflows.

COMMUNITY LEADERSHIP & VOLUNTEERING

Co-Founder & Leadership Council Member
Raise Them Foundation | Kigali, Rwanda | April 2024 - Present

- Co-founded a scholarship program with 6 team members and developed fundraising strategies while building partnerships with schools, donors, and community leaders to sponsor 2 high school students annually with full tuition, materials, and mentorship.
- Manage program budgets, financial forecasting, and resource allocation while preparing quarterly reports on program activities and financial utilization for stakeholders.

Co-founder & Shareholder
Cooperative KAJU | Bugesera District, Rwanda | January 2019 - Present

- Founded and mobilized 40 cooperative shareholders to expand fruit and tree seedling nurseries, working with local authorities and NGOs to establish sustainable environmental, nutrition, and climate-action programs that support vulnerable families across Bugesera District.
- Trained the communities in gardening techniques, crop management, and nutritional meal planning while maintaining records of program activities and impact metrics for community leaders.

AWARDS & RECOGNITION

- **Teaching Assistantship Project Program Alumni** | 2024 Completed an intensive national program of inspiring, empowering and educating students especially female in science subject, the program led by Rwanda Basic Education Board and IEE Rwanda in partnership with Mastercard Foundation.
- **ALU Election Commission Certificate of Participation** | 2025 Recognized for excellence in ensuring the transparency and fairness of the election season of SRS for 2025/2026 season.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, SQL, HTML, CSS
- **Backend Development:** Flask, FastAPI, RESTful API Development, Authentication & Authorization, Server-Side Routing, CRUD Operations
- **Frontend Development:** React.js, JavaScript ES6+, Responsive Web Design, DOM Manipulation
- **Databases & Data Engineering:** PostgreSQL, MySQL, SQLite, Database Schema Design, Data Cleaning & Transformation, Working with Large Datasets
- **DevOps & Tools:** Git, GitHub, VS Code, Docker , Linux (command-line basics), Virtual Environments
- **Cloud / Hosting (Basic Experience):** Firebase, Web Deployment, Environment Configuration
- **Productivity & Other Tools:** Microsoft Office Suite, Google Workspace

References Available Upon Request