

Theophile NIYIGABA

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[GitHub Profile](#)

[LinkedIn Profile](#)

[Portfolio website](#)

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Profile Summary

Innovative and results-driven, Software Engineer, Full-Stack Engineer, Computer Engineer with expertise in programming, IoT, software design, IT support and cybersecurity fundamentals.

Passionate about leveraging cutting-edge technologies to drive digital transformation, enhance technology applications, and create impactful solutions with global reach.

Adept at designing and implementing robust full-stack applications, securing systems against vulnerabilities, and fostering social and economic impact through technology.

Seeking opportunities to contribute as a Software Engineer, Full-Stack Developer, or Digital Innovation Leader, with a commitment to building scalable, secure, and user-centric solutions in Rwanda or on an international scale.

Education

Bachelor's Degree in Computer Engineering

University of Rwanda, College of Science and Technology (CST)

- Major: Computer and Software Engineering.

Secondary School Certificate (A2 Diploma) in (MCE)

ES Mukono EAR, Gicumbi District, Northern Province

- Concentration: Mathematics, Computer Science, Economics (MCE)

Ordinary and Primary Education

GS Cyumba, Gicumbi District, Northern Province

Technical and Programming Skills

Programming Languages: Python, Java, JavaScript, TypeScript, C, C++, PHP, HTML, CSS, Flutter with Dart, Tailwind CSS, Kotlin.

Web Development: React.js, Angular, Vue.js, Node.js, Django, Laravel, Spring Boot, Express.js, Next.js.

Content Management System(CMS): WordPress

Database Management Tools: MySQL, MongoDB, PostgreSQL, Firebase.

User interface and experience (UI / UX) : Figma

Professional and Software Skills

- ✓ Knowledge of IT equipment as well as windows product and Linux operating systems
- ✓ Understanding of software development, databases, and cloud technologies
- ✓ Strong communication and problem-solving skills.
- ✓ Ability to learn quickly and adapt to a fast-paced environment.
- ✓ Passion for technology, innovation, and customer-focused solutions.
- ✓ In-depth understanding of networking concepts, software systems architecture, monitoring, and alerting tools.
- ✓ Strong attention to detail in monitoring network activities, recognizing anomalies, and timely responding to incidents.
- ✓ Knowledge of ITIL (Information Technology Infrastructure Library) principles.
- ✓ Familiarity with incident management, change management, and problem management processes
- ✓ Effective communication skills, both written and verbal, to convey technical information and collaborate with team members.
- ✓ Demonstrated ability to quickly grasp and apply new technical knowledge and tools as required for the role
- ✓ Flexibility to adapt to a dynamic and fast-paced work environment.
- ✓ Hardware and software troubleshooting skills
- ✓ Good communication skills and ability to work effectively under pressure in a team and in a multicultural environment.
- ✓ Proactive approach to operational challenges in ICT environment
- ✓ Technical skills from background with 8 years of experience in IT field.
- ✓ experience in computer/network administration with hand-on skills.
- ✓ Self-management and Time management skills
- ✓ Respond to queries and provide guidance and advice on IT related issues as flerancer.
- ✓ Recognized IT qualification from university of Austin Texas in with strong experience in IT field and Full stack (MERN) Software development, (May - November 2024).

Software Tools & Platforms

Networking and Communication Simulation Tools

Cisco Packet Tracer - Network simulation and visualization.

Kali Linux and Wireshark - Network protocol analyzer.

Electronics and Circuit Simulation Tools

MATLAB, Simulink - Multi-domain simulation for electrical circuits and control systems.

Mechanical and CAD Simulation Tools

SolidWorks - Mechanical design and 3D design and simulation.

Software Development and Testing Simulation Tools

Selenium - Automated testing for web applications.

Postman - API testing and simulation.

JMeter - Load testing and performance simulation for applications.

VMware/VirtualBox - Virtualization and software testing environments.

Docker - Containerized application simulation and testing.

IoT and Embedded System Simulation Tools

Arduino IDE with Simulators - Simulates Arduino-based projects.

Data Science and AI Simulation Tools

Python (NumPy, Pandas) - Data manipulation and simulation.

Development Tools & Platforms

IDEs & Editors: VS Code, IntelliJ IDEA, PyCharm, Android Studio, Sublime Text, NetBeans.

Version Control: Git, GitHub.

Cloud & DevOps: AWS, Google Cloud, Docker.

UI/UX Design: Figma, Adobe XD, Sketch

Testing & Automation: Insomnia, Postman.

Core Competencies:

- ✓ Problem-Solving,
- ✓ Critical Thinking,
- ✓ Leadership,
- ✓ Team Collaboration,
- ✓ Innovation,
- ✓ Algorithmic Thinking likely on Hacker Rank, coding signal and Olympiads systems.

Experience with documentation tools

Markdown, Google Docs & Sheets, Microsoft Word, PowerPoint

Multimedia Systems and Entertainment Tools

- ✓ **Video editing:** OBS Studio, Adobe Premier Pro, DaVinci Resolve, Final Cut Pro
- ✓ **Image editing Tools:** Photoshop, Lightroom
- ✓ **Audio editing Tools:** Audacity, GarageBand
- ✓ **Animation:** Adobe Animate

Communication Soft Skills

- ✓ Strong communication and collaboration skills.
- ✓ Excellent attention to detail and organizational abilities.
- ✓ Ability to write clear, concise, and user-friendly documentation.
- ✓ A proactive attitude towards learning and professional growth.
- ✓ Prior experience or coursework in web development and technical writing.

Languages:

- ✓ **English** (Fluent)
- ✓ **Kinyarwanda** (Native)

Banking and Financial Skills

- ✓ Good foundation knowledge of digital banking systems and financial data security
- ✓ Experience developing user-friendly apps for transaction tracking and record management
- ✓ Familiar with tools used in budgeting and financial planning
- ✓ Strong understanding of how tech solutions support financial institutions

Certifications and Awards

- ✓ **Modern JavaScript** – IHUZO Academy & ICT Chamber Rwanda

- ✓ **Java Programming** – IHUZO Academy & ICT Chamber Rwanda
- ✓ **Spring Boot Framework** – IHUZO Academy & ICT Chamber Rwanda
- ✓ **HTML & CSS** – IHUZO Academy & ICT Chamber Rwanda
- ✓ Networking & IT Essentials (CCNA) – CISCO Networking Academy
- ✓ Effective Presentations – HP Life & HP Foundation
- ✓ Data Science & Analytics
- ✓ Foundations Of UX Design & Design Thinking – Microsoft & KEPSA
- ✓ Client Side Development With React
- ✓ Server Side Development With Nodejs
- ✓ PowerPoint Essentials
- ✓ Excel Fundamentals
- ✓ Software Engineer from HackerRank
- ✓ Android Development Fundamentals from Udacity university with Rwanda1millionCoders
- ✓ Frontend Developer (React) From HackerRank
- ✓ SQL (Advanced) From HacherRank
- ✓ System Administration From Microsoft.
- ✓ Web Development

[All of them are accessible at Access My Certificate Link on title or click here.](#)

Professional Experience

Web Development Intern at CodeAlpha (25-January, 2025 – 25-April, 2025)

Role:

- ✓ Designing user-friendly pages (frontend)
- ✓ Building backend logic and databases
- ✓ Fixing bugs and improving performance
- ✓ Learning from senior developers and working in a team

Technologies:

Frontend:

- ✓ HTML, CSS, JavaScript
- ✓ React.js, Vue.js, or Bootstrap
- ✓ Responsive design

Backend:

- ✓ Node.js, Express.js, and Django

Database:

- ✓ PostgreSQL, and MongoDB

Other Tools:

- ✓ Git and GitHub (for version control)
- ✓ REST APIs (for frontend-backend communication)
- ✓ Deployment tools (Netlify, Heroku and on render)

Full-Stack Development Intern at TechnoHacks Solutions (Sept 2024 – December 2025)

Engaged in hands-on full-stack web development tasks, building complete web applications from scratch. Developed projects including CRUD, Authentication, RESTful APIs,

For full-stack projects including: E-commerce, Chat Application, Blog website, Event Finder System using HTML, CSS, JavaScript, Node.js, and MongoDB, PHP. Gained practical experience in front-end and back-end integration, API development, user authentication, and responsive design. Delivered project demos through video submissions, showcasing functionality and technical proficiency.

Software and Hardware Development Intern

FabLab Rwanda (May 2023 – November 2023)

- Designed and implemented IoT-based solutions to streamline smart city initiatives.
- Enhanced web and mobile application development projects connected to hardware using Flutter and React.js.

Full-Stack Developer Training

KLab Tech (2022 – 2023)

- Delivered scalable web applications integrating backend APIs and dynamic front-end frameworks.
- Collaborated with clients to prototype UI/UX designs for e-commerce platforms.

Program Instructor at ES MUKONO (Part Time, 2021 - 2024)

Preparing and training the students for Computer science and Mathematics.

Projects

Wallet Management System (Status: Completed)

Technologies: PHP, HTML, Bootstrap, JavaScript, CSS, MYSQL

Features:

- track all in and out transactions from different accounts.
- Generate a report according to the desired time gap.
- Set a budget not to exceed, once it exceeds the application should notify him.
- To add categories and subcategories of things he spent money on.
- To be able to link expenses with related categories or subcategories.
- Display transactions summary in a visualized way and exporting to pdf, Excel documents.

Library Management System (Status: Completed)

Technologies: React.js, PHP, MySQL

Features:

- Users' authentication and role management (Guests, Students, Librarian, Admin and Super- admin),
- book management actions,
- Automated borrowing/return real time.

Family Cohesion App (Status: on-going)

- **Aim:** Promote family bonding and gender equality through interactive challenges.

Features:

Family management actions,
AI embedded for helping user to search something want to know

Technologies: Flutter, Firebase

Best Scholars Portal (Status: Ongoing)

Objective:

A web application providing real-time scholarship tracking and job searching updates.

Technologies: Nodejs, MongoDB, Angular

E-Commerce Platform (Status: on-going)

Objective: Built a mobile-responsive platform integrating secure payment gateways.

Technologies: Laravel, API integration and development, React.JS, MongoDB

UI/UX Design Experience

- **Event Finder System** – Designed an intuitive and user-friendly UI in Figma for a full-stack event management platform.
 - **E-commerce System** – Created an engaging and responsive online shopping experience with a modern UI/UX approach.
 - **Wallet Management System** – Developed an efficient and visually appealing interface for digital transactions and financial tracking.
 - **Learning Management System UI**: UI in Figma for a full-stack LMS platform.
 - **Other Projects Including [Cc Hub design Pharmacy System UI](#)** – Designed multiple UI prototypes for various applications, ensuring usability and accessibility.
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Professional Development Boot Camps:

- **Embedded Systems & IoT Trainings**
 - ✓ FabLab Academy (2023-2024) Kigali, Rwanda,
 - ✓ Emertxe, Jan 2025 India.
- **Full-Stack Development Bootcamp** – KLab Tech (2023) Kigali, Rwanda
- **Cloud & DevOps Fundamentals** – Google Cloud (2024) Google, US

Hobbies & Interests

- ✓ **Design and Modeling**: Create innovative designs using SolidWorks for engineering and product development projects.
- ✓ **Coding Competitions**: Regularly participate in national and international coding challenges to test and refine programming skills.
- ✓ **Community Engagement**: Dedicated to mentoring students in technology and digital literacy through workshops and outreach programs.
- ✓ **Content Creation**: Produce educational and inspiring YouTube content related to scholarships updates, technology, and innovations in Rwanda.
- ✓ **Reading & Research**: Stay updated on the latest trends in technology, AI, and software development methodologies.

- ✓ **Creative Design:** Passionate about exploring tools like SolidWorks, Adobe Photoshop, Illustrator, and Figma for graphic design and prototyping.
 - ✓ **Travel & Cultural Exchange:** Enjoy discovering new places and learning about different cultures to broaden perspectives and foster innovation.
 - ✓ **Gaming & Game Development:** Dive into gaming experiences and experiment with developing games using C++ and Unity.
 - ✓ **Fitness & Outdoor Activities:** Engage in jogging, cycling, and hiking to maintain physical and mental well-being.
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References

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4. Mr. Charles NZARORISHYEREZO

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I am a passionate, innovative, and versatile professional dedicated to leveraging my skills in computer engineering, software development, and design to create impactful solutions.

With a strong foundation in cutting-edge technologies and a commitment to continuous learning, I am ready to contribute effectively to any dynamic team or project.

I look forward to opportunities where I can bring value and grow alongside a forward-thinking organization while making a meaningful impact in the tech world.

Theophile NIYIGABA

A handwritten signature in blue ink, consisting of a series of loops and strokes, positioned below the printed name.