

Curriculum Vitae – Thomas M. Gondwe

PERSONAL INFORMATION

Name: Thomas M. Gondwe

Sex: Male | **Nationality:** Zambian

About :

As a dedicated software developer and data analyst, I bring a deep passion for leveraging technology to address real-world challenges. My approach is deeply analytical, focusing on dissecting complex problems to architect robust information structures and innovate effective solutions. I excel not only in rapid knowledge assimilation but also in maintaining a highly organized workflow, ensuring precision and efficiency in every project. Beyond technical expertise, my leadership extends to cross-disciplinary collaboration and effective communication with non-technical stakeholders. Adept in public speaking, I articulate complex ideas with clarity, driving the highest quality solutions forward. My commitment to teamwork, combined with a methodical and analytical mindset, positions me as a dynamic force ready to contribute to and elevate any project or team.

WORK EXPERIENCE

January 2024 - Present

Technical consultant - software developer and data analyst

Aeiforia advisory

Key Responsibilities:

- Client Consultation
- Software Development
- Data Analysis and Modeling
- Database Management
- Technical Documentation
- Quality Assurance and Testing
- Client Training and Support

2022 – Present 2024

Project Manager & Senior Developer | SummitShare .

Key Responsibilities:

- Spearheaded the development of SummitShare's pioneering digital repatriation platform, leveraging blockchain technology to secure a digital repository for historical metadata on cultural artifacts. This platform represents one of the first of its kind, setting a precedent in how digital technologies can preserve cultural heritage
- Architected a comprehensive smart contract ecosystem (Smart Contract Mesh) for the platform, encompassing tokenization, exhibit creation, and ticket sales, ensuring a seamless and integrated digital experience.
- Employed GraphQL and Apollo for efficient data aggregation and management, facilitating dynamic data exchange between the platform's frontend and blockchain backend, enhancing user interface and experience.

Business or sector: Technology

2021 - 2023

Senior Developer | BICOS

Key Responsibilities:

- Innovated a blockchain-based revenue distribution system, enabling real-time financial distributions among multiple stakeholders with varying percentage allocations, significantly improving operational efficiencies.
- Conducted extensive research and development on a blockchain solution aimed at providing community banking services to the global rural unbanked population, demonstrating a commitment to leveraging technology for social good.
- Implemented a blockchain-based payment and certification system for Jewel of Africa's products, ensuring transparency and authenticity in transactions.
- Contributed to the "Leading Ladies" project for Women's History Museum of Zambia (WHMZ), utilizing photogrammetry technology to optimize and present 3D objects in a virtual museum, enhancing public engagement with historical narratives.

2022 - Present

Business or sector: Technology

Data Officer | Time and Tide Foundation Africa

Key Responsibilities:

- Revolutionized data analysis processes using Kobo and ODK tools, streamlining data cleaning and analysis workflows, and significantly improving data quality and reliability.
- Automated critical data processing tasks by developing and implementing VBA macros and Python scripts, reducing manual labor and increasing operational efficiency.
- Designed and deployed comprehensive data dashboards, offering strategic insights into the foundation's programs, enhancing decision-making processes.
- Produced detailed Social Return on Investment (SROI) reports, providing valuable metrics on the foundation's impact and effectiveness in its mission.

2024 - 2024

Business or sector: Technology/NGO

Contracted Back-End Engineer | Logarthym

Key Responsibilities:

- Mastered web development fundamentals, including HTML and CSS, to create both static and dynamic websites, laying the groundwork for a successful career in software development.
- Expanded technical skill set by learning Python, developing simple yet engaging applications such as games and password managers, demonstrating a continuous commitment to learning and personal development.

Business or sector: Technology.

2018 - 2020

Developer | Self Employed

Key Responsibilities:

- Mastered web development fundamentals, including HTML and CSS, to create both static and dynamic websites, laying the groundwork for a successful career in software development.
- Expanded technical skill set by learning Python, developing simple yet engaging applications such as games and password managers, demonstrating a continuous commitment to learning and personal development.

Business or sector: Technology.

- **Information Architecture and Design** : Expertise in structuring and designing information systems for optimal access and use.
- **Web Application Development**: Proficient in creating scalable, responsive web applications tailored to user needs.
- **API Design and Implementation**: Skilled in designing and implementing RESTful APIs for seamless integration and interaction between different software systems.
- **Version Control**: Proficient with Git for version control, including branching, merging, projects and collaboration workflows.
- **Jupyter Notebook**: Experienced in using Jupyter Notebook for interactive computing and data analysis.
- **Visual Basic for Applications (VBA)**: Skilled in automating tasks and developing custom business solutions within Microsoft Office applications.
- **Data Analysis and Aggregation**: Adept at analyzing large datasets to uncover insights and trends, utilizing aggregation techniques for data summarization.
- **Database Schema Design and Development**: **Proficient** in designing and developing efficient database schemas to support application data needs.
- **Programming Languages**:
 - JavaScript/TypeScript: Advanced proficiency in developing dynamic client-side scripting.
 - Solidity: Experienced in smart contract development for Ethereum blockchain applications.
 - Node.js: Skilled in building scalable server-side applications.
- **Cloud Computing**: Knowledgeable in utilizing AWS and Google cloud services for scalable cloud solutions.
- **GraphQL and Apollo**: **Experienced** in implementing GraphQL APIs and integrating Apollo for optimized data fetching and state management.
- **Documentation**: Skilled in creating comprehensive documentation to support development and ensure clarity among team members.
- **Blockchain Systems Architecture and Development**: Proficient in designing and developing blockchain-based solutions, with a focus on system architecture and decentralized applications.
- **Research and Data Analysis**: Experienced researcher with adept skills in data aggregation and analysis using ArcGIS software for geographic information systems projects and spatial data analysis.

NB: References available upon request