



# Sierra Vault

Your Documents, Secured Forever

Blockchain-Verified Digital Document Vault for Sierra Leone

Presented by **Aruna Kallon**



# The Critical Problem Facing Sierra Leone

Every year, thousands of Sierra Leone citizens face devastating document loss. Fire, floods, theft, and simple misplacement destroy irreplaceable papers that define our lives and livelihoods.

The impact is severe: birth certificates, academic degrees, property deeds, professional licenses—all vulnerable. Replacement takes 3-6 months of bureaucratic navigation, costing citizens lost opportunities, financial hardship, and legal complications.

**3-6**

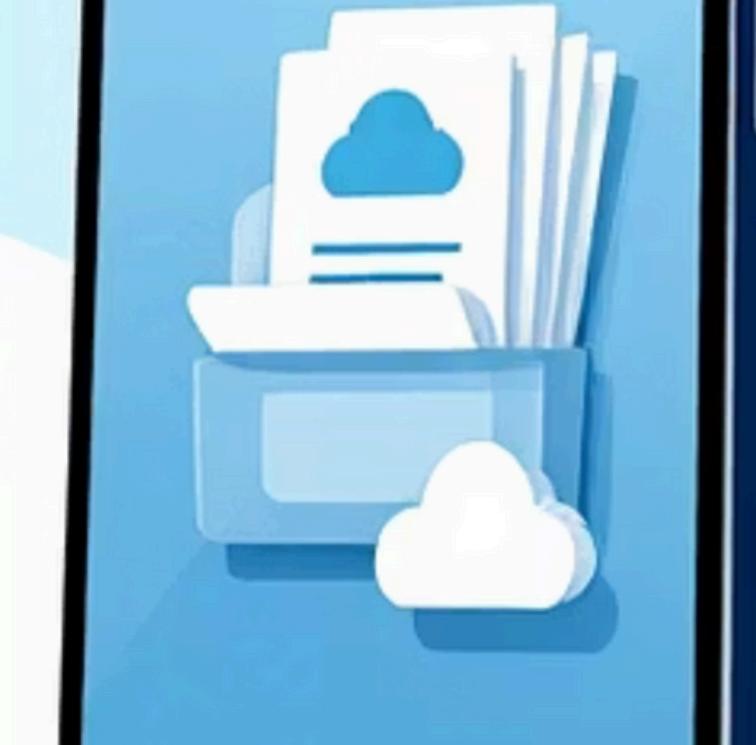
**Months to Replace**

Bureaucratic replacement process timeline

**1000s**

**Citizens Affected**

Documents lost annually



# Introducing Sierra Vault

A revolutionary blockchain-verified digital document vault built specifically for Sierra Leone citizens. Sierra Vault transforms how we protect, access, and share our most critical documents.

## Permanent Storage

Blockchain-verified, tamper-proof document preservation that survives any disaster

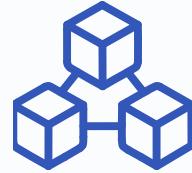
## Universal Access

Access your documents anytime, anywhere, from any device

## Complete Ecosystem

Multi-stakeholder platform connecting citizens, government, and institutions

# Revolutionary Features



## Blockchain Verification

Every document cryptographically verified and stored on the blockchain. Tamper-proof permanence with an immutable audit trail ensures authenticity forever.



## Multi-Role System

Complete ecosystem supporting citizens, government issuers, institutional requesters, auditors, and administrators. Everyone plays a part.



## Military-Grade Security

End-to-end encryption, role-based access control, and secure sharing with granular permissions. Your documents stay protected.



## Always Accessible

Cloud-based storage works seamlessly across all devices. Offline viewing capability ensures access even without connectivity.



# Advanced Capabilities

## Document Management

- Drag-and-drop upload interface
- Custom folder organization system
- Powerful search and filter tools
- Automatic categorization

## Smart Sharing

- Secure link generation
- Email-based document sharing
- Customizable permissions control
- Expiration dates for time-limited access

## Verification System

- Real-time blockchain verification
- Visual verification badges
- Complete audit trail history
- Instant authenticity checks

## Role-Based Dashboards

- Customized interfaces for each user type
- Government issuer workspace
- Institutional requester portal
- Comprehensive admin controls

# How Sierra Vault Works

Six simple steps transform document management from vulnerable to invincible.



## Register

Quick signup using your National ID Number for secure identity verification

## Upload

Intuitive drag-and-drop interface makes document upload effortless

## Verify

Automatic blockchain verification creates tamper-proof authenticity

## Organize

Create custom folders and add metadata for perfect organization

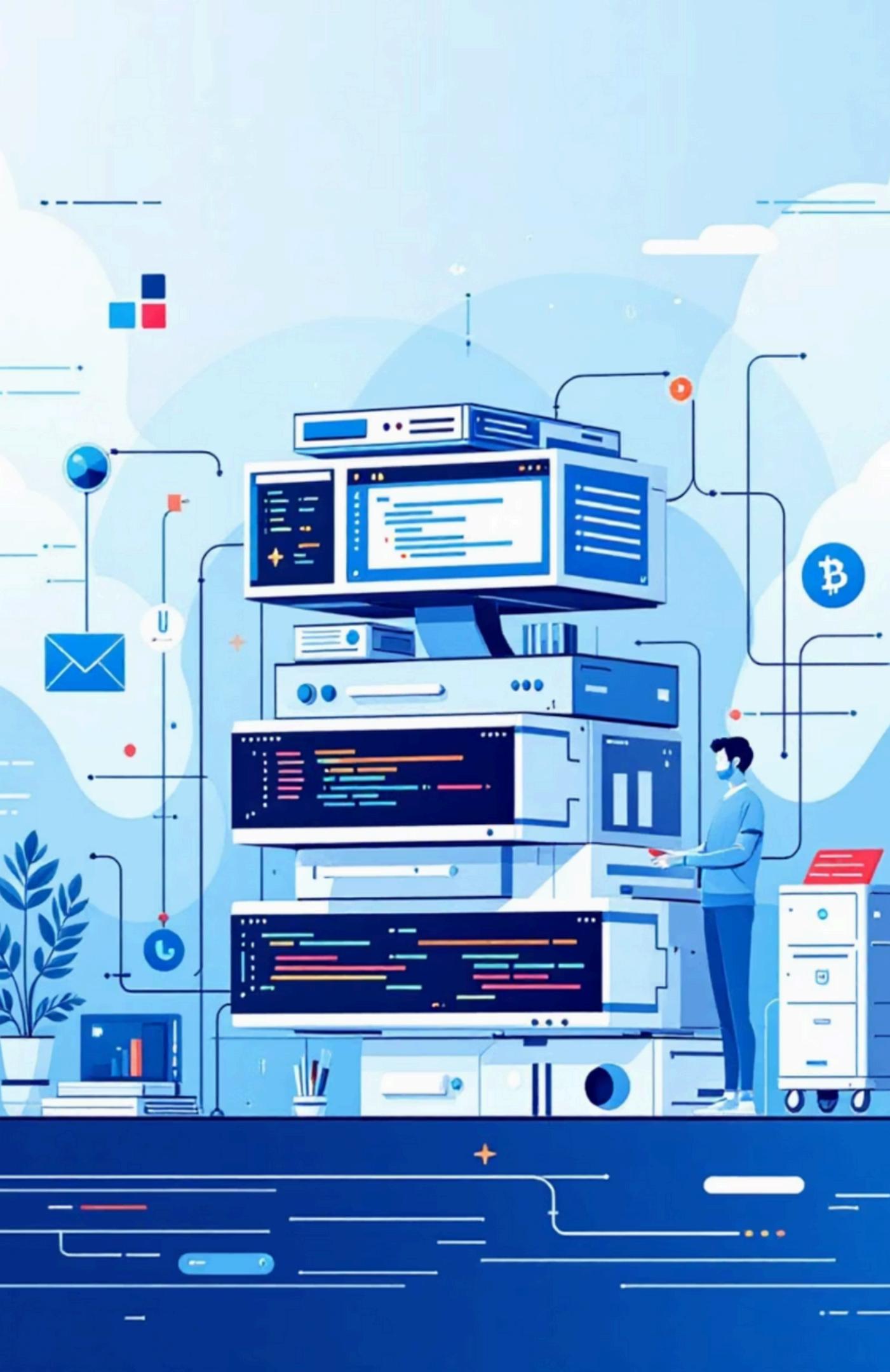
## Share

Secure sharing with granular permission controls and expiration dates

## Access

View, download, or verify your documents anytime from anywhere

# Built with Modern Technology



## Frontend Excellence

- Next.js 14 React framework
- TypeScript for type safety
- Tailwind CSS styling
- Fully responsive design

## Backend Power

- Node.js with Express
- RESTful API architecture
- JWT authentication
- Role-based access control

## Secure Infrastructure

- MongoDB Atlas cloud database
- Blockchain verification
- End-to-end encryption
- Scalable architecture

Production-ready architecture built to scale to millions of users while maintaining security and performance.

# Transforming Lives Across Sierra Leone

## 1 For Students

Never lose degree certificates again. Share verified academic credentials with employers instantly, accelerating job applications and building trust.

## 2 For Property Owners

Secure land deeds permanently on the blockchain. Prevent fraud, resolve disputes quickly, and enable instant property verification.

## 3 For Job Seekers

Share verified qualifications in seconds. Reduce application processing time from weeks to minutes while increasing employer confidence.

## 1 For Government

Dramatically reduce document fraud with blockchain verification. Streamline verification processes, improve citizen services, and maintain complete audit trails.

## 2 Disaster Recovery

Documents survive floods, fires, and theft. Permanent cloud backup ensures quick recovery and continuous access no matter what happens.

# Why Sierra Vault Wins



**First blockchain-verified solution purpose-built for Sierra Leone**

Not an adaptation—a ground-up design addressing local needs and challenges



**Complete multi-stakeholder ecosystem**

Beyond simple storage: connecting citizens, government, institutions, and auditors



**Production-ready today**

Fully functional application, not a prototype—ready for immediate deployment



**Scalable architecture for millions**

Built to grow from thousands to millions of users without compromising performance





# Sierra Vault

## Your Documents, Secured Forever

### 1 Built for Sierra Leone

Designed for local needs and challenges

### 2 Built for the Future

Scalable, sustainable technology

### 3 Built to Make a Difference

Transforming thousands of lives

**"Let's secure the future, one document at a time."**

Thank you for your time and consideration. We're ready to demonstrate how Sierra Vault will revolutionize document security for Sierra Leone.