

Developer Proposal: UnMuseum Digital Platform

Black South West Network

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1. Executive Summary

I am a first gen graduate and IT professional with deep expertise in web development, cloud infrastructure, and artificial intelligence solutions. My background uniquely combines technical proficiency with meaningful community engagement work, particularly with organisations supporting Black and racially minoritised communities.

Why I am the right fit for the UnMuseum:

- **Community-first approach:** Advisory roles with FirstGens CIC, Enprise/Italian Blackpreneurs, Irene Vera Foundation, and Di FELLOWS
- **Rapid prototyping expertise:** I build production-ready prototypes using Lovable.dev (2.3 million users), turning ideas into functional platforms within days
- **Product leadership:** Served as Product Owner for PRGRSS (April to July 2025), coordinating development teams across United Kingdom and Pakistan
- **AI integration specialist:** First Class dissertation on RAG architecture, 3,800 AI platform interactions in eight weeks
- **Microsoft compliance expertise:** Successfully secured \$5,000 Azure AI facility for Nyfasi through Microsoft nonprofit programme
- **Not a single point of failure:** Microsoft engineers can review and vet my architecture, ensuring BSWN has ongoing support

Connection to this opportunity: Gary Thompson, Creative and Cultural Consultant at Cables and Cameras CIC Bristol, introduced me to BSWN and Mina Drobna.

2. Technical Approach

2.1 Platform Foundation: Omeka S

I propose building UnMuseum on **Omeka S**, a leading open-source digital heritage platform:

Metric	Value
Years Active	10 years (since 2015)
Total Commits	7,078
Contributors	33
Latest Release	v4.2.0 (December 2025)
Status	Actively maintained

Source: github.com/omeka/omeka-s

2.2 Technology Stack

Layer	Technology	Purpose
Frontend	Next.js / React	Modern, accessible interface
Backend	Node.js / Omeka S (PHP)	Heritage platform and API
Database	PostgreSQL	Heritage data storage
AI	RAG / LangChain / Azure Cognitive	Intelligent search
Voice	ElevenLabs	Oral history preservation
Cloud	Microsoft Azure	UK data residency
Security	Wazuh	Zero trust monitoring

2.3 My Experience Mapped to Omeka S

Requirement	My Experience	Evidence
Web Development	Full-stack development	PRGRSS platform
Database	PostgreSQL, Firebase	Multiple projects
API Integration	REST APIs	PRGRSS, Getaway AI

Requirement	My Experience	Evidence
User Management	RBAC, authentication	USW 23,000 users
Migration	Website migration	USW Student Ambassador
AI Integration	RAG, LangChain	First Class dissertation

2.4 ElevenLabs Voice Preservation

BSWN qualifies for the **ElevenLabs Impact Program** (cultural nonprofit):

Benefit	Details
License	ElevenLabs Pro
Duration	12 months FREE (renewable)
Characters	33 million
Application	Heritage voice cloning

Source: elevenlabs.io/impact-program

Applications for UnMuseum:

- Clone community elders' voices before they pass
- Oral history playback in original voice
- Text-to-speech accessibility
- Interactive AI guides in community voices

2.5 Data Sovereignty

BSWN owns and controls all community data:

Aspect	Implementation
Azure Tenant	BSWN's own tenant
Data Residency	Azure UK South
Database	Self-hosted PostgreSQL
Backup Control	BSWN-managed
Access Control	BSWN as Global Admins

2.6 Security: Wazuh Zero Trust

Component	Function
Intrusion Detection	Real-time monitoring
Log Analysis	Centralised logging
Vulnerability Scanning	Proactive risk management
Compliance	GDPR, Cyber Essentials
File Integrity	Heritage content protection

Source: wazuh.com

2.7 Microsoft Engineer Review

I am not a single point of failure:

- Microsoft engineers review my Azure architecture
- Comprehensive documentation for any developer
- Open source code (no proprietary lock-in)
- Knowledge transfer to BSWN staff

3. Work Packages

WP1: Discovery and Design (Weeks 1 to 4)

Deliverable	Description
WP1.1	Community research and stakeholder interviews
WP1.2	Wireframes and user interface designs
WP1.3	Lovable interactive prototypes
WP1.4	Microsoft nonprofit registration
WP1.5	ElevenLabs Impact Program application

WP2: Core Development (Weeks 5 to 10)

Deliverable	Description
WP2.1	Omeka S installation and Azure deployment

Deliverable	Description
WP2.2	Authentication and user management
WP2.3	Content management system
WP2.4	Wazuh security implementation

WP3: Feature Development (Weeks 11 to 16)

Deliverable	Description
WP3.1	Archive system with Dublin Core metadata
WP3.2	AI-powered semantic search
WP3.3	ElevenLabs voice integration
WP3.4	Community contribution features

WP4: Testing and Compliance (Weeks 17 to 20)

Deliverable	Description
WP4.1	Beta testing with community
WP4.2	WCAG 2.1 AA accessibility audit
WP4.3	Security review and penetration testing
WP4.4	GRC documentation

WP5: Launch and Handover (Weeks 21 to 24)

Deliverable	Description
WP5.1	Platform launch
WP5.2	Staff training
WP5.3	Technical documentation
WP5.4	Support transition

4. Timeline

Phase	Weeks	Duration
Discovery and Design	1 to 4	4 weeks
Core Development	5 to 10	6 weeks
Feature Development	11 to 16	6 weeks
Testing and Compliance	17 to 20	4 weeks
Launch and Handover	21 to 24	4 weeks
Support Period	25 to 48	6 months

Total Duration: 12 months

5. Budget Breakdown

5.1 SFIA-Based Pricing

This pricing follows the Skills Framework for the Information Age (SFIA), used by UK Government Digital Service.

My SFIA Level: Level 4 (Enable)

5.2 Cost Breakdown

Work Package	Days	Rate	Cost
WP1: Discovery	10	350	3,500
WP2: Core Development	15	400	6,000
WP3: Features	15	400	6,000
WP4: Testing	5	400	2,000
WP5: Launch	5	400	2,000
Contingency (10%)	-	-	2,000
TOTAL	50	-	21,500

All amounts in GBP.

5.3 Value Added (Included Free)

Service	Market Value
Microsoft nonprofit onboarding	2,000
ElevenLabs application	500
Azure credits (annual)	2,800
Microsoft 365 setup	1,000
Wazuh security	3,000
12-month support	4,000
Total Value	13,300

5.4 Payment Schedule

Milestone	Percentage	Amount
Contract Signing	20%	4,300
WP1 Complete	15%	3,225
WP2 Complete	25%	5,375
WP3 Complete	20%	4,300
WP4/5 Complete	20%	4,300

Business Account: Mettle (NatWest)

Accountancy: FreeAgent

6. Community Engagement Strategy

Principle	Implementation
Nothing about us without us	Community in every decision
Accessible participation	Online and in-person options
Multiple narratives	Contested histories honoured
Intergenerational	Young and elders represented
Multilingual	Community languages supported

7. Managed Service Commitment

I commit to supporting BSWN throughout your NLHF funding period:

Months 1 to 12: Full development and delivery

Months 13 to 24: Maintenance, bug fixes, training refreshers

Years 2 to 4: Priority access, advisory, grant support

8. Experience and References

Professional Experience

PRGRSS / Global Purpose Enterprise

Product Owner (April to July 2025)

- Led product development across UK and Pakistan teams
- Built four Lovable prototypes, reduced miscommunication 60%

Nyfas

Microsoft Nonprofit Onboarding (2020, ongoing)

- Secured \$5,000 Azure AI facility
- Navigated complete Microsoft compliance process

University of South Wales

Digital Technical Mentor (September 2023 to August 2024)

- Supported 23,000 users
- Website migration experience as Student Ambassador

Technocamps

STEM Ambassador (February 2023 to August 2024)

- Wales-wide education delivery

Qualifications

- BSc (Hons) ICT, University of South Wales (2:1, Dissertation: First Class)
- AWS Cloud Engineering re/Start, Cardiff and Vale College
- DBS Enhanced Check: Cleared

References

- **Gary Thompson** - Cables and Cameras CIC, Bristol
 - **Laura Roberts** - Technocamps, Wales
 - **Sally-Anne** - USW Study Skills Team
 - **Alaya** - CEO, FirstGens CIC
 - **Hope** - Founder, Irene Vera Foundation
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9. Closing Statement

The UnMuseum is an extraordinary opportunity to create a living digital space where Black and racially minoritised communities can preserve their heritage for future generations.

I bring technical excellence, Microsoft nonprofit expertise, ElevenLabs voice preservation, and enterprise security through Wazuh. I am committed to knowledge transfer so BSWN is never dependent solely on me.

Let us build something powerful together.

Andrea Enning

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