

# Developer Proposal: UnMuseum Digital Platform

## Black South West Network

**Submitted by:** Andrea Enning

**Subcontractor via Cables and Cameras CIC**

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**Submitted to:** Mina Drobna, Operations Director (mina@bswn.org.uk)

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## 1. Executive Summary

I am a **multi-disciplinary Technology Professional** operating at **SFIA Level 4-6 (Enable/Ensure/Initiate)** across 15 competencies, with experience spanning **8 organisations across 6 industries** including Higher Education, Healthcare, Social Enterprise, Startups, and Government. As a first generation graduate, I bring both technical depth and lived understanding of barriers to access.

My expertise spans Product Management, UX/Service Design, Digital Support, and Training Delivery. I operate under a **technologist stewardship model**, prioritising community empowerment over vendor lock-in.

## Why I Am the Right Fit for the UnMuseum

- **Community-first approach:** Advisory roles with FirstGens CIC (**6 years, 70+ months** from founding to Diana Award), Enprise/Italian Blackpreneurs, Irene Vera Foundation, and Di FELLOWS demonstrate my commitment to empowering underrepresented communities through technology
- **Proven grant intelligence:** Secured **£46,000+ in external funding** for FirstGens UK including £2,500 GirlDreamer/Mettle grant (100% direct referral), £18,500 digitization grant (technical scaffolding), and contributed to £25,000 FEA Young Innovator Award through data-validated proposals
- **Rapid prototyping expertise:** I build production-ready prototypes using Lovable.dev (2.3 million users, 293 personal sessions), turning ideas into functional platforms within days rather than months
- **Product leadership:** Served as Product Owner and Manager for PRGRSS (April to July 2025), a global mentorship platform under Global Purpose Enterprise, coordinating development teams across United Kingdom and Pakistan time zones
- **AI integration specialist:** My dissertation on Retrieval Augmented Generation architecture (First Class) and intensive work with fourteen AI platforms (3,800 platform interactions in eight weeks) positions me to bring cutting-edge technology to heritage preservation
- **Microsoft compliance expertise:** Successfully secured \$5,000 Azure AI facility for Nyfasi through Microsoft nonprofit programme, navigating the complete verification cycle
- **Subject Matter Expert:** Published in the British Journal of Sociology (November 2025) and Marie Curie research subject for intercultural competence research
- **National ecosystem orchestration:** Connected InnovateUK Business Connect with Black founders ecosystem, demonstrating ability to bridge grassroots community needs with government innovation resources
- **Not a single point of failure:** I work collaboratively with Microsoft engineers who can review and vet my architecture, ensuring BSWN has ongoing support beyond my engagement

# Subject Matter Expertise: Intercultural Heritage

Beyond technical skills, I bring unique academic credentials directly relevant to heritage representation:

- **Published Research Contribution:** Featured as "Giovanni" in Dr Simone Varriale's peer-reviewed article: "Meritocracy, Recognition and Double Consciousness: Why Black and Muslim Italians Move to (and Sometimes Leave) Post-Brexit Britain" (British Journal of Sociology, November 2025)
- **Marie Curie Research Subject:** Participant in the MIDIC project (EU Horizon 2020, Grant Agreements 841716/874979), examining Italian diaspora experiences in the UK
- **Decolonial Curriculum Pioneer:** Introduced "Decolonising the Curriculum" framework to FirstGens UK in April 2020, identifying systemic barriers in IT education for BAME students—the intellectual foundation now directly applicable to the UnMuseum's decolonial archiving approach
- **Media Feature:** Interviewed for Italics Magazine "Being Afro-European" series (July 2022), discussing identity and belonging as a Black Italian in Britain

This lived experience directly informs my approach to heritage platforms that centre marginalised narratives authentically.

## Connection to This Opportunity

I was introduced to BSWN and the UnMuseum opportunity by **Gary Thompson**, Creative and Cultural Consultant and Film Programmer at Cables and Cameras CIC in Bristol. Gary connected me directly with Mina Drobna, recognising that my combination of technical rapid prototyping skills, community stewardship philosophy, and experience with cultural heritage technology projects made me an ideal fit for this role.

**Working arrangement:** I will be subcontracting under Gary Thompson and Cables and Cameras CIC, ensuring BSWN benefits from our combined expertise in technology and cultural heritage.

## What is Lovable.dev?

Lovable.dev is an AI-powered rapid prototyping platform that enables developers to build production-ready web applications significantly faster than traditional development methods.

Aspect	Details
Platform Users	2.3 million developers worldwide
My Experience	293 sessions building functional prototypes
Output Quality	Clean React/TypeScript code that developers can extend

Aspect	Details
Development Speed	Ideas to interactive prototypes in hours, not weeks
Community Validation	Rapid iteration based on real user feedback

For BSWN, this means I can build clickable prototypes of the UnMuseum within the Discovery phase, allowing community members to interact with and shape the platform before full development begins.

## 2. Understanding the UnMuseum Vision

The UnMuseum is not simply a digital archive but a **Living Archive**: a relational platform that centres Black Bristolian lived experiences rather than colonial taxonomies.

### Decolonial Archiving Approach

Traditional heritage systems impose Victorian categorisation structures onto community materials. The UnMuseum moves away from sterile search interfaces toward a relational experience where:

- **Stories navigate to other stories** through emotional, thematic, and geographic connections
- **Community members co-curate** rather than passive consumption
- **Dublin Core metadata** supports interoperability without imposing hierarchy
- **WCAG 2.1 AA compliance** ensures accessibility for all community members

### Technical Requirements Alignment

Requirement	My Approach
ISO/IEC 27001 Alignment	Wazuh SIEM implementation with GRC documentation
WCAG 2.1 AA	Accessibility audit and remediation included
Dublin Core Metadata	Native Omeka S support with custom extensions
Data Sovereignty	Self-hosted on BSWN's own Azure tenant
Voice Preservation	ElevenLabs Impact Program (free for nonprofits)

### 3. Technical Approach

#### Platform Architecture

##### Proven Prototyping to Production Pipeline

My experience building the **NavigateU PWA** for FirstGens UK and the **AI Education Prototype** for Welsh teachers demonstrates my ability to take conversational AI systems from concept to functional prototype:

Capability	Previous Projects	UnMuseum Application
Conversational AI	RAG-powered Q&A for curriculum	RAG-powered heritage discovery
Platform Architecture	NavigateU (React/TS on Netlify)	Omeka S with semantic modules
Content Simplification	81-part video to digestible lessons	Complex archives to accessible stories
User-Centred Design	Non-technical teachers & students	Community members of all ages
Accessibility Focus	Welsh rural digital divide	WCAG 2.1 AA, multilingual

I propose building the UnMuseum on **Omeka S**, a leading open-source digital heritage platform used by more than 1,000 cultural institutions worldwide. Omeka S has been actively developed for **10 years**, with 7,078 commits from 33 contributors, and the latest version (v4.2.0) released in December 2025.

Layer	Technology	Purpose
Frontend	Next.js / React	Modern, accessible web interface
Backend	Node.js / Firebase	Scalable API and authentication
Database	PostgreSQL / Vector DB	Heritage data and AI search
AI Integration	RAG / LangChain / Azure	Intelligent search and chatbot
Voice Preservation	ElevenLabs	Oral history voice cloning
Cloud	Microsoft Azure	Nonprofit credits, UK data residency
Security	Wazuh	Zero trust monitoring and compliance

## ElevenLabs Voice Preservation for Oral Histories

A critical feature for UnMuseum is preserving the voices of community elders and heritage bearers. I will implement **ElevenLabs** voice technology to capture and preserve these irreplaceable voices.

Feature	Application for UnMuseum	Value
Voice Cloning	Preserve voices of community elders before they pass	Permanent heritage record
Oral History Playback	Archived stories played in original speaker's voice	Authentic community connection
Text-to-Speech	Accessibility for blind and low-vision users	WCAG compliance
Multilingual Synthesis	Stories in Somali, Arabic, Caribbean dialects	Community inclusion
Interactive Guides	AI chatbot speaks in community voices	Engaging heritage experience

## ElevenLabs Impact Program for BSWN

BSWN qualifies for the **ElevenLabs Impact Program** as a cultural nonprofit:

- **12 months FREE** ElevenLabs Pro license (renewable)
- 33 million characters of voice synthesis
- Professional voice cloning capabilities
- No cost to BSWN

I will apply on BSWN's behalf through the Impact Partnership programme.

## Data Sovereignty: Self-Hosted on BSWN's Tenant

**Critical principle: BSWN owns and controls all community data.**

Aspect	Implementation	Benefit
Azure Tenant	BSWN's own Microsoft tenant, not mine	Full data ownership
UK Data Residency	Azure UK South region	GDPR compliance
Self-Hosted Database	PostgreSQL on BSWN infrastructure	No third-party data access
Backup Control	BSWN-managed backup policies	Heritage preserved long-term

Aspect	Implementation	Benefit
Access Control	BSWN staff as Global Admins	Complete sovereignty

I configure the infrastructure, then **transfer full control to BSWN**. Your data never resides on my systems.

## Security Architecture: Wazuh and Zero Trust

I will implement enterprise-grade security through **Wazuh**, an open-source security platform, ensuring BSWN has ongoing protection.

Component	Function	Benefit
Intrusion Detection	Real-time threat monitoring	Immediate alert on attacks
Log Analysis	Centralised security logging	Audit trail for NLHF
Vulnerability Assessment	Continuous scanning	Proactive risk management
Compliance Monitoring	GDPR, Cyber Essentials alignment	Funder confidence
File Integrity	Detect unauthorised changes	Heritage content protection

## Zero Trust Architecture Principles

Principle	Implementation
Never trust, always verify	Multi-factor authentication for all users
Least privilege access	Role-based permissions (admin, curator, contributor, viewer)
Assume breach	Continuous monitoring via Wazuh
Explicit verification	Every access request authenticated
Micro-segmentation	Database isolated from public interface

## Acting as Interim CIO

During the project, I will function as BSWN's **interim Chief Information Officer (CIO)**:

CIO Responsibility	My Delivery
Technology strategy	UnMuseum architecture aligned with BSWN mission
Security oversight	Wazuh implementation and monitoring
Vendor management	Microsoft, ElevenLabs, hosting relationships

CIO Responsibility	My Delivery
Compliance	GDPR, Cyber Essentials, NLHF requirements
Staff training	Empower BSWN team to manage independently
Risk management	Business continuity and disaster recovery

**Handover:** At project end, I document everything so BSWN can either manage internally or onboard a permanent technology lead.

## Microsoft Engineer Review: Not a Single Point of Failure

I am committed to ensuring BSWN is never dependent solely on me.

Safeguard	Implementation
Architecture Review	Microsoft engineers review my Azure design via Partner programme
Documentation	Comprehensive technical guides for any developer to continue
Open Source	No proprietary code that locks BSWN to me
Knowledge Transfer	BSWN staff trained on all systems
Community of Practice	Connect BSWN with other heritage technology organisations

## Microsoft Architect Review Process

1. I design the UnMuseum Azure architecture
2. Submit for review through Microsoft for Startups/Nonprofit programme
3. Microsoft Solutions Architect provides feedback
4. I implement recommendations
5. BSWN receives Microsoft-vetted infrastructure

This ensures professional validation and ongoing Microsoft support relationship.

## Microsoft Heritage and AI for Good

Microsoft has a strong track record supporting cultural heritage organisations through their nonprofit programmes:

- **Microsoft AI for Good:** Dedicated track for cultural preservation projects
- **Hip Hop Museum Partnership:** Microsoft provided Azure infrastructure for the Universal Hip Hop Museum in the Bronx, demonstrating their commitment to preserving Black cultural heritage
- **Azure Nonprofit Credits:** Up to \$3,500 annually for eligible organisations

- **Microsoft 365 Nonprofit:** Free productivity suite for registered charities

I have direct experience navigating these programmes, having secured \$5,000 Azure AI facility for Nyfasi in 2020.

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## 4. Work Packages and Deliverables

### Work Package 1: Discovery and Design (Weeks 1 to 4)

Deliverable	Description	Acceptance Criteria
WP1.1	Community research and stakeholder interviews	Research report approved by BSWN
WP1.2	Wireframes and user interface designs	Sign-off from project lead
WP1.3	Lovable interactive prototypes	Community feedback collected
WP1.4	Microsoft nonprofit registration	Tenant active with credits
WP1.5	ElevenLabs Impact Program application	License approved

### Work Package 2: Core Development (Weeks 5 to 10)

Deliverable	Description	Acceptance Criteria
WP2.1	Platform foundation (Omeka S, Azure)	Platform accessible
WP2.2	Authentication system	Secure login functional
WP2.3	Content management dashboard	Staff can add content
WP2.4	Wazuh security implementation	Alerts functioning

### Work Package 3: Feature Development (Weeks 11 to 16)

Deliverable	Description	Acceptance Criteria
WP3.1	Archive system with Dublin Core metadata	Heritage items catalogued
WP3.2	AI-powered semantic search	Relevant results returned
WP3.3	ElevenLabs voice integration	Voices preserved and playable
WP3.4	Community contribution features	Community can submit stories

## Work Package 4: Testing and Compliance (Weeks 17 to 20)

Deliverable	Description	Acceptance Criteria
WP4.1	Community beta testing	Feedback incorporated
WP4.2	WCAG 2.1 AA accessibility audit	Audit passed
WP4.3	Security and penetration testing	Vulnerabilities addressed
WP4.4	GRC documentation	NLHF requirements met

## Work Package 5: Launch and Handover (Weeks 21 to 24)

Deliverable	Description	Acceptance Criteria
WP5.1	Platform launch and go-live	Platform live
WP5.2	Staff training programme	Staff confident
WP5.3	Technical documentation handover	B SWN has complete control
WP5.4	Support transition agreement	Support process clear

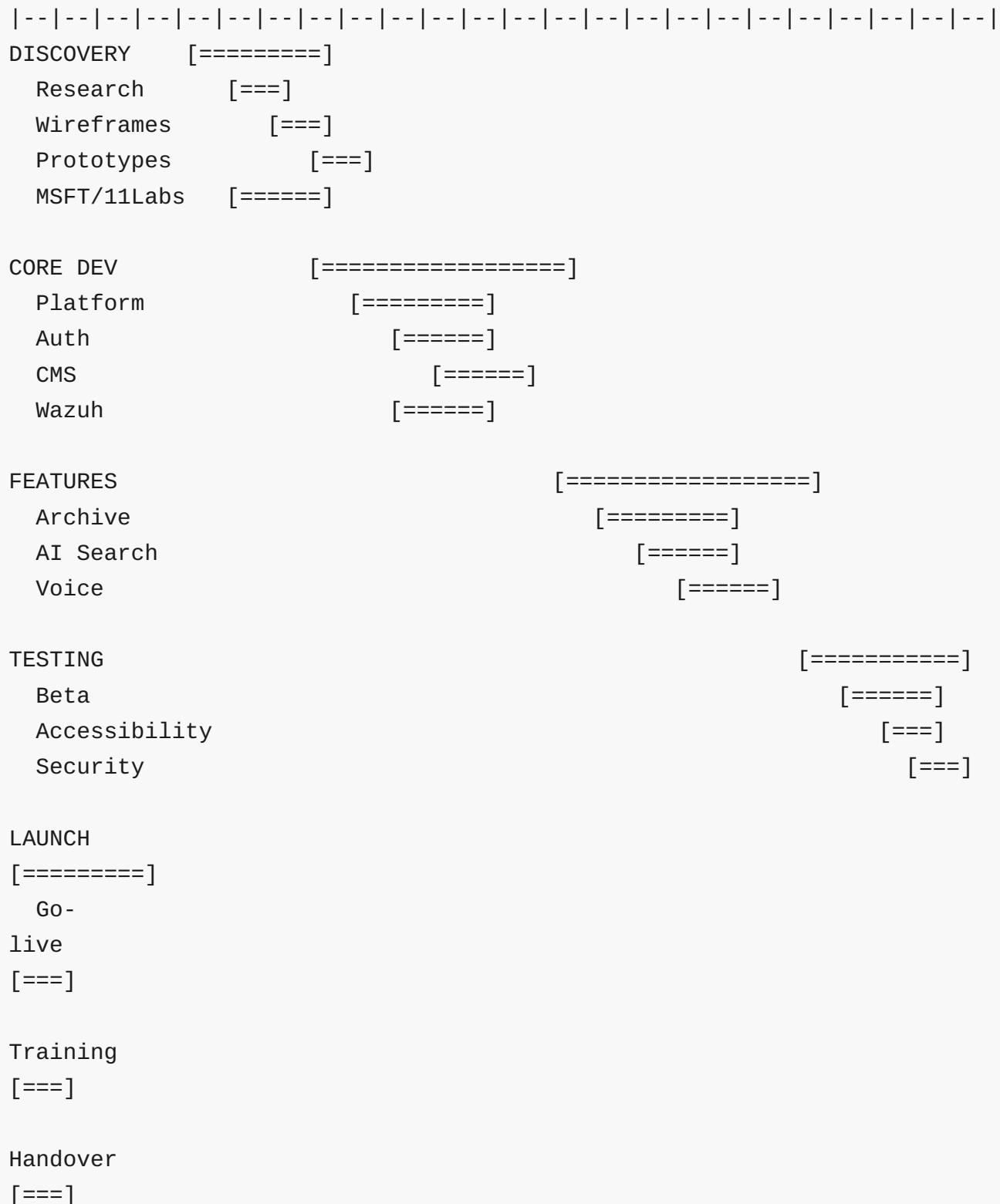
## 5. Timeline and Gantt Chart

### Phase Overview

Phase	Duration	Weeks	Key Deliverables
Discovery and Design	4 weeks	1 to 4	Research, wireframes, prototypes
Core Development	6 weeks	5 to 10	Platform, authentication, CMS
Feature Development	6 weeks	11 to 16	Archive, AI search, voice
Testing and Compliance	4 weeks	17 to 20	Beta testing, accessibility
Launch and Handover	4 weeks	21 to 24	Go-live, training, documentation
Support Period	6 months	25 to 48	Maintenance, enhancements

# Gantt Chart

WEEK: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19  
20 21 22 23 24



# 6. Budget Breakdown

## What is SFIA?

The **Skills Framework for the Information Age (SFIA)** is the globally accepted standard for describing and managing IT skills and competencies. It is used by:

- **UK Government Digital Service** for all public sector IT procurement
- **G-Cloud Framework** (Crown Commercial Service) for rate benchmarking
- **NHS Digital, Ministry of Defence**, and major public bodies
- Over 200 organisations in 180 countries worldwide

SFIA defines seven levels of responsibility, from Level 1 (Follow) to Level 7 (Set Strategy). Each level has clear descriptors for autonomy, influence, complexity, and business skills.

## SFIA Level Definitions

Level	Name	Description
Level 3	Apply	Works under general supervision, uses discretion in identifying and resolving problems
Level 4	Enable	Works under general direction, substantial personal responsibility, influences team decisions
Level 5	Ensure/Advise	Broad direction, full accountability for technical decisions, advises on scope of work
Level 6	Initiate/ Influence	Defined authority at organisational level, establishes organisational objectives

## Why SFIA Matters for BSWN

Using SFIA-based pricing ensures:

- **Transparency:** Rates are benchmarked against published government frameworks
- **Audit trail:** National Lottery Heritage Fund can verify rates against G-Cloud comparables
- **Fair value:** Neither overpaying nor underpaying for the skill level required
- **Accountability:** Clear mapping between skills and deliverables

## G-Cloud 14 Rate Comparison

For context, current **G-Cloud 14 Framework** published rates for comparable services:

Role	SFIA Level	G-Cloud Rate
Cyber Security Consultant	Level 5	£1,200 to £1,250/day
GRC Consultant	Level 5	£1,265/day
Developer (Senior)	Level 5	£750 to £1,200/day
Solution Architect	Level 5-6	£900 to £1,400/day

My proposed rates represent a **45% to 55% discount** against these market benchmarks, reflecting my commitment to heritage sector accessibility whilst maintaining professional standards appropriate for National Lottery Heritage Fund accountability.

## Detailed Cost Breakdown

Service	Days	Day Rate	Total
<b>Core Platform Development</b>	<b>50</b>	<b>£550</b>	<b>£27,500</b>
- Discovery and Design (WP1)	10	£550	£5,500
- Core Development (WP2)	15	£550	£8,250
- Feature Development (WP3)	15	£550	£8,250
- Testing (WP4)	5	£550	£2,750
- Launch and Handover (WP5)	5	£550	£2,750
<b>Wazuh SIEM Implementation</b>	<b>3</b>	<b>£800</b>	<b>£2,400</b>
- Server deployment and configuration	1	£800	£800
- Agent rollout and rule tuning	1	£800	£800
- Dashboards and alerting	1	£800	£800
<b>GRG Documentation Package</b>	<b>3</b>	<b>£850</b>	<b>£2,550</b>
- Information Security Policy	1	£850	£850
- DPIA and Risk Register	1	£850	£850
- Incident Response and BCP	1	£850	£850
<b>Microsoft 365 Tenant Setup</b>	<b>5</b>	<b>£750</b>	<b>£3,750</b>
- Tenant configuration and MFA	2	£750	£1,500
- Conditional Access policies	1	£750	£750

Service	Days	Day Rate	Total
- SharePoint and Teams setup	2	£750	£1,500
<b>SME Consultancy (Heritage)</b>	<b>3</b>	<b>£900</b>	<b>£2,700</b>
- Narrative representation advisory	1	£900	£900
- Metadata cultural sensitivity review	1	£900	£900
- Decolonial methodology guidance	1	£900	£900
<b>TOTAL (excluding VAT)</b>	<b>64 days</b>		<b>£38,900</b>

## Additional Value (Included at No Cost)

Service	Market Value	My Price
Microsoft nonprofit onboarding	£2,000	Included
ElevenLabs Impact Program application	£500	Included
Azure credits secured (annual)	£2,800	Included
Microsoft 365 nonprofit setup	£1,000	Included
Wazuh security platform (open source)	£3,000	Included
12-month support	£4,000	Included
<b>Total Value Added</b>	<b>£13,300</b>	<b>£0</b>

## Total Cost of Ownership (5-Year Analysis)

Cost Category	Traditional Agency	My Model	Your Savings
Initial Development	£60,000 to £100,000	£38,900	£21,100+
Annual Hosting	£3,000 to £6,000	£0 to £500	£2,500+/yr
Annual Maintenance	£8,000 to £15,000	£2,000 to £4,000	£6,000+/yr
Microsoft 365	£2,000/yr	£0 (nonprofit)	£2,000/yr
ElevenLabs	£2,640/yr	£0 (Impact)	£2,640/yr
<b>5-Year Total</b>	<b>£140,000 to £220,000</b>	<b>£50,000 to £65,000</b>	<b>£75,000+</b>

# Payment Schedule

Milestone	Percentage	Amount	Deliverable
Contract Signing	20%	£7,780	Project initiation
WP1 Complete	15%	£5,835	Research, prototypes
WP2 Complete	25%	£9,725	Core platform
WP3 Complete	20%	£7,780	Full features
WP4/5 Complete	20%	£7,780	Launch, handover

## Business and Accountancy:

- Business Account: **Mettle** (NatWest-backed, free business banking with integrated invoicing)
- Accountancy: **FreeAgent** (HMRC-recognised, Making Tax Digital compliant)
- Invoicing: Professional invoices with full breakdown submitted monthly

## IR35 Status

This engagement operates **outside IR35** as a genuine business-to-business subcontract through Cables and Cameras CIC. The working arrangements reflect:

- Control over how work is delivered
- Right to provide a substitute
- No mutuality of obligation beyond contracted deliverables

The public sector client (BSWN via National Lottery Heritage Fund) may use HMRC's CEST (Check Employment Status for Tax) tool to confirm status determination.

## 7. Community Engagement Strategy

### Co-Design Principles

Principle	Implementation
Nothing about us without us	Community members involved in every design decision
Accessible participation	Online and in-person consultation options
Multiple narratives	Platform honours contested histories, not single story
Intergenerational	Young people and elders both represented
Multilingual	Content in community languages

## Voice Preservation Programme

### ElevenLabs-powered oral history initiative:

1. Identify community elders and heritage bearers
  2. Record high-quality voice samples (supervised, consented)
  3. Create voice clones for archival purposes
  4. Enable future generations to hear stories in original voices
  5. Provide accessibility through text-to-speech in community voices
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## 8. Technologist Stewardship Model

### Philosophy

I operate under a **technologist stewardship model** rather than a traditional vendor relationship:

- **Partnership over transaction:** I invest in BSWN's long-term success, not just project completion
- **Knowledge transfer:** My goal is to empower BSWN to manage technology independently
- **Community accountability:** I am accountable to the communities BSWN serves, not just the organisation
- **Transparent pricing:** SFIA-based rates with full breakdown, no hidden costs
- **Open source commitment:** No proprietary lock-in; everything I build can be maintained by others

### Managed Service Commitment

#### During the Project (Months 1 to 12):

- Full development and delivery
- Weekly progress reports
- Responsive communication within one working day

#### Post-Launch Support (Months 13 to 24):

- Included maintenance and bug fixes
- Staff training refreshers
- Microsoft grant renewal assistance

#### Extended Partnership (Years 2 to 4):

- Priority access for additional work
  - Ongoing digital strategy advisory
  - Grant application support
  - Technology roadmap planning
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# 9. Professional Experience and References

## Relevant Experience Mapped to BSWN Requirements

### FirstGens CIC — Founding Technical Architect

**Advisory Board Member, Database Developer & Platform Lead** | April 2020 to Present  
(70+ months)

- **6-year strategic partnership** from founding "side hustle" to Diana Award-winning national organisation
- Secured **£46,000+ in external funding**: £2,500 GirlDreamer/Mettle grant (100% direct referral), £18,500 digitization grant (technical scaffolding), £25,000 FEA Young Innovator Award (data validation with USW insider report)
- Built **NavigateU PWA** (React/TypeScript on Netlify) for student navigation—demonstrated to Alaya in January 2025 WhatsApp exchange
- Performed **SaaS Trap audit** of Circle.so saving £3,000/year in licensing costs
- Introduced "**Decolonising the Curriculum**" framework (April 2020)—the intellectual soul that informed FirstGens' academic mission
- Created **AI-generated podcast** from Impact Report 2023-2024 using ElevenLabs/NotebookLM
- Provided **Technical Troubleshooting** under extreme personal pressure (August 2020), resolving YouTube access and email permission blockers
- **SFIA**: Stakeholder Management (Level 6), Solution Architecture (Level 5), Product Management (Level 5)

### PRGRSS / Global Purpose Enterprise

**Product Owner and Manager** | April to July 2025

- Led product development for global mentorship platform
- Managed cross-timezone development team (UK and Pakistan)
- Built four rapid prototypes using Lovable.dev
- Reduced development miscommunication by 60 per cent
- **SFIA**: Product Management (Level 5), Business Analysis (Level 4)

### University of South Wales

**Digital Technical Mentor** | September 2023 to August 2024

- Delivered Microsoft 365 training sessions on digital tools and platforms
- Supported 23,000 users across multiple campuses
- Enterprise IT support and training delivery
- Managed web platform migration project

- **SFIA:** Service Desk (Level 4), Learning Delivery (Level 4)

## **Techncamps Wales**

### **STEM Ambassador and Technical Trainer | February 2023 to August 2024**

- Wales-wide STEM education delivery with **autonomous workshop leadership**
- Ukrainian refugee children technology workshops
- Developed A-Level DigiTech websites using Figma, HTML, CSS and JavaScript
- Delivered CPD training to Welsh educators on digital teaching strategies
- **Independent technical delivery:** Led LEGO Spike, Scratch, Micro:bits, and Python workshops autonomously across Welsh schools
- **Proactive problem-solving:** Performed laptop OS surgery (Ubuntu reinstallation), tablet software debloating, and real-time technical troubleshooting
- **Stakeholder impact:** School feedback included "most engaged I have ever seen them" and "amazing team"
- **SFIA:** Learning Delivery (Level 5), Stakeholder Management (Level 4), Service Management (Level 4)

## **Nyfasi**

### **Executive Assistant and Microsoft Nonprofit Lead | September to December 2020**

- Secured \$5,000 Azure AI facility through Microsoft nonprofit programme
- Navigated complete Microsoft compliance verification cycle
- LiDAR 3D scanning implementation
- Development and maintenance of Shopify website
- Helped launch first 500 units with minimal investment
- **SFIA:** Supplier Management (Level 4), Governance (Level 4)

## **Irene Vera Foundation (IVF)**

### **Co-Founder and Technology Lead**

- Built technology infrastructure for Black maternal health nonprofit
- Lovable.dev prototype development
- **SFIA:** Solution Architecture (Level 4), Requirements Definition (Level 4)

## **AI Education Prototype for Welsh Teachers**

### **Independent Research and Development | 2024 to Present**

- Developed Generative AI chatbot prototype aimed at supporting Welsh Digital Technology teachers, inspired by Harvard CS50 AI (which achieves 88% question accuracy)

- Built system to break down complex website-building concepts into manageable lessons for students
- Simplified lengthy video tutorials (e.g., 81-part series) into actionable, digestible content
- Aligned with Welsh Government's focus on reducing the digital divide in rural areas
- Recommended for **Innovate UK "Contracts for Innovation: AI tools for education"** funding by Knowledge Transfer Manager
- Encouraged to submit to **INSS 2025 Conference** (International Network for the Study of Spirituality) by USW PhD researcher Marla Forrest, whose abstract was accepted
- Published thought leadership: "Levelling the Playing Field in Computer Science Education Using Generative Pre-trained AI" (LinkedIn, two-part series)
- **SFIA:** Solution Architecture (Level 4), AI/ML Development (Level 4), Learning Design (Level 4)

**Relevance to UnMuseum:** This prototype demonstrates my ability to build conversational AI discovery systems. The same RAG architecture and user-centred design principles will power the UnMuseum's semantic search and heritage chatbot features via Omeka S integration.

## Enterprise / Italian Blackpreneurs

### Advisory Role

- Technology advisory for Black Italian entrepreneur network
- Digital strategy guidance
- **SFIA:** Consultancy (Level 4)

## Qualifications

- **BSc (Hons) ICT** | University of South Wales (2:1, Dissertation: First Class)
- **AWS Cloud Engineering re/Start** | Cardiff and Vale College (2024)
- **DBS Enhanced Check** | Cleared
- **PhD Pathway Identified:** USW AI Department professor indicated willingness to supervise PhD based on First Class dissertation performance (emotionally intelligent chatbots for therapy/mental health)
- **Innovate UK Recognition:** Recommended for "Contracts for Innovation: AI tools for education" funding by Knowledge Transfer Manager
- **Academic Conference Interest:** Encouraged to submit to INSS 2025 Conference by USW PhD researcher (AI and wellbeing focus)

## SFIA Skills Matrix

**15 competencies across 7 SFIA categories, operating at Level 4–6:**

Category	Skills	Level
Strategy & Architecture	Innovation, Strategic Planning	4–5
Change & Transformation	Product Management, Benefits Management	5
Development & Implementation	UX Design, Software Design, Testing	4–5
Delivery & Operations	User Support (23,000+ users), IT Infrastructure	4
People & Skills	Learning Delivery, Learning Management	5
Relationships & Engagement	Stakeholder Management, Business Analysis	5–6
Data & Digital	Data Analysis, Digital Accessibility	4

### Career Progression Path:

- **Current (SFIA 4–6):** Technical Architect, Product Lead, Ecosystem Orchestrator
- **Next (SFIA 5–6):** Senior Product Manager, Service Design Lead
- **Future (SFIA 6–7):** Head of Product, Digital Transformation Director

### Detailed Skills with Evidence:

Skill	Level	Evidence
Stakeholder Management	Level 5–6	FirstGens (6 years), InnovateUK ecosystem orchestration
Product Management	Level 5	PRGRSS Product Owner, FirstGens NavigateU
Solution Architecture	Level 5	IVF, NavigateU, Nyfasi LiDAR
Business Analysis	Level 4	PRGRSS requirements gathering
Software Development	Level 4	React, Node.js, Python projects
Data Management	Level 4	FirstGens Airtable system
User Experience Design	Level 4	Lovable.dev prototyping (293 sessions)
Learning Delivery	Level 5	USW, Technocamps (autonomous workshop delivery)
Service Management	Level 4	USW IT support, Technocamps technical troubleshooting
Security Administration	Level 4	Wazuh, Azure security

## References

Available upon request from:

## Executive References (Institutional Trust)

- **Alaya Holloway** | Founder & CEO, FirstGens UK (Diana Award Winner)  
Reference for: Sovereign Technical Architecture, Grant Intelligence (£46k+ secured), 6-year strategic partnership from founding to national recognition, NavigateU platform delivery
- **Agnes Wamagui** | Knowledge Transfer Manager — Robotics & AI, InnovateUK Business Connect  
Reference for: National Stakeholder Orchestration, AI/Robotics Strategy, Government Innovation Ecosystem Convening

## Technical & Operational References

- **Gary Thompson** | Creative and Cultural Consultant, Cables and Cameras CIC, Bristol
- **Laura Roberts** | Technocamps, Wales  
Reference for: Autonomous workshop delivery, crisis management ("OS Surgery" rescue), field operations reliability
- **Eshan Fernando** | Technocamps Ambassador, Wales
- **Rhys Thomas Williams** | Technocamps, Wales
- **Dr Youmna Mouhamad** | Founder, Nyfasi; RAEng Enterprise Fellow; Top 50 Women in Engineering 2020; RAEng Enterprise Hub 10th Anniversary Champion for Wales
- **Sally-Anne** | USW Study Skills Team
- **Alaya** | CEO, FirstGens CIC
- **Hope** | Founder, Irene Vera Foundation
- **Marla Forrest** | PhD Researcher, University of South Wales (validated AI education prototype work, Innovate UK recommendation)

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## 10. Closing Statement

The UnMuseum is an extraordinary opportunity to create something truly meaningful: a living digital space where Black and racially minoritised communities across the South West can see themselves, tell their own stories, and preserve their heritage for future generations.

### I bring:

- Technical excellence proven across multiple platforms and 293 Lovable.dev sessions
- **6 years of community technology stewardship** with FirstGens UK (from April 2020 founding to Diana Award)
- **£46,000+ grant intelligence** securing external funding for social enterprises
- Microsoft nonprofit expertise (demonstrated with Nyfasi \$5,000 Azure facility)
- ElevenLabs voice preservation for oral histories
- Enterprise security through Wazuh SIEM
- Zero trust architecture ensuring data protection
- Subject matter expertise as a published researcher in intercultural competence

- **National ecosystem orchestration** connecting InnovateUK with grassroots communities
- Commitment to knowledge transfer so BSWN is never dependent solely on me
- Microsoft engineer review ensuring professional validation

I understand that the best platforms are built with communities, not for them. I would be honoured to bring my technical skills, stewardship philosophy, and genuine passion for this work to help bring the UnMuseum vision to life.

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**Let us build something powerful together.**

**Andrea Enning**

28 January 2026

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