MUSAY

Job Title	Full Stack Developer
Type	Contract
Job Location	Remote
Posted On:	08/18/2025

About MUSAY:

MUSAY is life enriched. We exist to help people, especially GenZ, get off their phones and into the uplifting third spaces and events that just happen to be at Arts & Culture organizations.

MUSAY is based in Nashville, TN and is a graduate of the EC's In Flight program.

We are a marketplace that uses innovative technology to transport people from the digital world of their phones to the transformative world of cultural third spaces and the experiences they never knew they needed for belonging, connection and community. To do this we combine large-scale web crawling, advanced content management, and backend services with AI-powered enrichment for user-first Arts & Culture event discovery.

Job Function:

Software Engineering

Job Summary:

We're seeking a talented **Full Stack Developer** excited about our mission to join the team. This role focuses on building and maintaining MUSAY's data ingestion pipelines, backend services, Sanity CMS components, and mobile/web interfaces. You'll play a key part in scaling our data collection, integrating AI/ML-driven enrichment, and improving our user and client-facing experiences.

Job Description:

Key Responsibilities

Web Crawling & Data Ingestion

- Maintain and enhance our Python-based web crawler for collecting critical content and data.
- Develop new parsers for websites using Playwright for dynamic content.
- Implement AI/ML pipelines to auto-tag, classify, and enrich data using LLM APIs (e.g., OpenAI, Hugging Face).
- Optimize crawler performance for large-scale data collection, with robust error

handling.

- Validate, clean, and normalize structured data (JSON) for integration into Sanity CMS.
- Automate crawling workflows using GitHub Actions and containerized deployments.

Backend Development

- Develop and maintain Node.js/TypeScript backend services using Express.js and TSOA (OpenAPI/Swagger).
- Integrate with Firebase for authentication, analytics, and messaging.
- Implement RESTful and GraphQL APIs for internal and public-facing services.
- Build secure authentication systems (OAuth2, JWT, Passport.js).
- Integrate external APIs such as Algolia search, partner data feeds, and LLM endpoints.
- Write automated tests with Mocha, Chai, Sinon, and Jest.
- Apply security best practices with Helmet.js, input validation, and rate limiting.

Sanity CMS & Front-End Development

- Design and implement custom Sanity schemas for partner data, events, and content.
- Develop custom Sanity Studio components in React for data entry and editorial workflows.
- Integrate Sanity with backend services and crawlers for real-time content updates.
- Build React Native mobile components to extend MUSAY to iOS/Android.
- Implement mobile and web UI features for browsing events, collections, and institutions.

Requirements / Qualifications:

Required Technical Skills

- **Languages & Frameworks:** Python 3.x (web scraping), Node.js/TypeScript, React, React Native.
- **CMS:** Sanity (schema design, custom components, GROQ queries).
- **Backend:** Express.js, RESTful APIs, GraphQL, TSOA.
- **Web Crawling:** Playwright, BeautifulSoup, Cheerio, Puppeteer.
- **Cloud & Services:** Firebase (Auth, Firestore, Functions, Analytics, Messaging), Algolia search.
- **AI/ML:** Experience integrating LLM APIs or ML models for data enrichment.
- **Version Control & CI/CD:** Git, GitHub Actions.
- **Testing:** Mocha, Chai, Jest, Sinon.

Security: OAuth2, JWT, security best practices for web apps.

Nice to Have

- Experience with museum/cultural heritage data standards (e.g., Linked Art, IIIF).
- Search tuning experience (relevance algorithms, ML-assisted ranking).

- Docker and cloud deployment (GCP or AWS).
- Monitoring/logging tools (Sentry, Datadog, or similar)

Benefits:
MUSAY is a fast moving start up and its CTO is an industry leader having built Real Networks from zero to IPO. This position is critical to MUSAY's growth and is slated to convert to FT employee in early 2026. When it does, benefits will include, but not be limited to equity options and healthcare offering(s).

How to Apply

careers@musay.com

More questions email: **careers@musay.com**