**Job Description**

**Backend Python Developer**

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| **Organization** | Adeso - African Development Solutions, www.adesoafrica.org |
| **Project** | Kuja |
| **Position Type** | Project-based Contract |
| **Job Title** | Backend Python Developer |
| **Position Location** | Nairobi/Remote |
| **Duration** | 1 month with possible extension |
| **Hours/Month** | 40 hours/week |
| **Reporting To** | Product & Technology Lead |
| **Working With** | Kuja Team |

**Background:**

Adeso is a pioneering African social enterprise with global influence. Rooted in Africa for over 30 years, we are working toward a decolonised world where people thrive through their own resourcefulness and tenacity. Adeso is part of global movement to shift power to local leaders who are closest to the problem and, by consequence, closest to the solution. We are working with allies all over the world to reimagine and build a better system that is based on the principles of solidarity, humility, self-determination, and equality.  We are committed to this work. Committed to proving it is possible. Ready to partner, ready to overcome barriers, and ready to evolve to create a blueprint for change.

Adeso has successfully launched social enterprises and subsidiaries, such as Ladhan Investment Company Ltd, Libin Investment Company Ltd, and Kuja, each with the aim of building the ecosystem needed to confront the legacy of colonialism. These entities all fall under the private sector arm of Adeso, while Adeso’s humanitarian programs and internal operations fall under the non-profit arm of Adeso and are led by Program Leads and Departmental Heads. Through this portfolio of solutions, we work to connect, design, launch, and scale the most promising innovations that will be a catalyst for community-led change. As a recognized leader in the global effort to decolonize the humanitarian and development aid system, Adeso leads coalitions working with civil society leaders, funders, INGOs, and aid agencies that are designed to shift power and resources to those most proximate to the world's most urgent challenges.

Kuja is a critical component of Adeso’s five-year strategy that is focused on systems change and infrastructure development to support the creation of an ecosystem that supports more democratic and equitable resourcing and the strengthening of Global South civil society.

Kuja offers the following tech platforms and services:

* **KujaLink**: A platform where funders, INGOs, and CSOs can connect to find the perfect match and best-fit local partners.
* **KujaBuild**: Offers a platform and services to fill CSO operational gaps and manage compliance, allowing them to focus on their community and minimize funding risks.
* **KujaLearn**: A platform offering online resources and e-learning opportunities to enhance CSO expertise and facilitate organizational change.
* **KujaAdvise**: Offering expert support to simplify the proposal process and tailored consulting to decolonize INGOs and donor organizations.

# Overview

We are seeking a skilled Backend Python Developer to join our team in building and extending the Kuja platform. The ideal candidate will have expertise in Python, Flask, Flask-AppBuilder, and PostgreSQL. The role involves developing the core backend functionalities of the platform, integrating with an Enterprise Resource Planning (ERP) system, and implementing social media messaging functionalities.

# Key Responsibilities

**Backend Development:**

* Design, develop, and maintain backend services and APIs using Python and Flask.
* Implement scalable and secure backend solutions for handling large volumes of data and user interactions.

**Database Management:**

* Design and optimize PostgreSQL database schemas and queries.
* Implement data access and manipulation functionalities to support various platform features.

**ERP Integration:**

* Develop and maintain integration points between the KujaLink platform and the ERP system.
* Ensure seamless data synchronization and interoperability between systems.

**Social Media Integration:**

* Implement functionality for social media messaging and interactions.
* Integrate with social media APIs to enable platform features such as sharing and notifications.

**AI Integration:**

* Collaborate with AI specialists to integrate generative AI models into backend services.
* Ensure efficient and secure API endpoints for AI functionalities.

**Documentation:**

* Write comprehensive documentation for backend APIs, database schemas, and integration points.
* Ensure codebase is well-documented and follows best practices for maintainability.

# Required Skills and Experience

* Proficiency in Python and experience with Flask and Flask-AppBuilder.
* Extensive experience with PostgreSQL, including schema design and query optimization.
* Experience in developing and integrating RESTful APIs.
* Familiarity with ERP systems and experience in integrating with them.
* Experience with integrating social media APIs (e.g., Facebook, Twitter, LinkedIn).
* Basic understanding of AI libraries (e.g., TensorFlow, PyTorch) and their integration into backend systems.
* Familiarity with Python AI tooling (e.g., LangChain, LlamaIndex, Hugging Face) and their integration.
* Experience with Agile methodologies preferred.
* Strong emphasis on writing and maintaining clear and detailed documentation.

# Desired Qualifications

* Bachelor’s degree in Computer Science or a related field.
* Minimum of 3 years of experience in backend Python development.
* Proven track record of delivering high-quality backend solutions for complex projects.

**APPLICATION PROCESS**

This is an exciting opportunity for a dedicated and highly motivated professional. If you would like to join our team, please submit your application to jobs@adesoafrica.org quoting the position in the email subject matter. This application will be open until the position is filled.

* Each application should be addressed to the Human Resources Department and include the following:
  + 1 page Cover Letter with applicant’s current contact information.
  + 1 page Resume or CV including detailed work experience, education/degrees, and details of similar assignments.
  + 3 professional references with complete contact information (Name, Relationship to Reference, Email and Phone Number)

**Applications that do not include all of the above information will not be reviewed. Only short-listed candidates will be contacted. Adeso is an equal-opportunity employer.**