

Full Stack Developer for TinyMLaaS Platform

Overview of the Role

NinjaLABO, a new AI startup funded by the [European Space Agency](#) (ESA) and specializing in **Embedded AI**, is seeking an experienced Full Stack Developer. This role offers the exciting opportunity to contribute significantly to our TinyML as-a-Service (TinyMLaaS) platform ([paper](#) & [demo](#)). Your work will directly impact the accessibility of [TinyML](#) technologies, integrating seamlessly with leading AI SaaS like [Hugging Face](#), [Weights & Biases](#), and utilizing cloud services such as [Docker API](#).

Your Role and Responsibilities

- **Backend Development:** Initiate the project by focusing on creating a robust and scalable backend using [FastAPI](#). This foundational work is essential for ensuring the platform's stability, performance, and security.
- **Frontend Development:** After establishing the backend, shift attention to the frontend, employing [Streamlit](#) or [stlite](#). The aim here is to develop an intuitive user interface that mirrors our customers' workflows, optimizing for ease of use and enhancing user engagement.
- **CLI Generation:** Take charge of improving the platform's accessibility by automating the creation of command-line interface (CLI). This task involves generating the CLI from a [Swagger](#) ([OpenAPI](#)) specification file, making it easier for developers to interact with our platform.
- **Integration with AI SaaS and Cloud Services:** Work on integrating the platform with leading AI SaaS and cloud services, including [Hugging Face](#) and [Docker Hub](#). This involves not only incorporating these services into our platform but also ensuring they function cohesively to expand our offering and elevate the user experience.

What We're Looking For

- Experienced in backend development, especially with expertise in [FastAPI](#).
- Proficient in integrating a variety of cloud services and AI SaaS platforms, such as [Hugging Face](#) and [W&B](#), into our backend infrastructure.
- Knowledgeable in frontend development, capable of creating simple user interfaces using [Streamlit](#) or [stlite](#). The frontend development will complement the backend services by translating complex functionalities into user-friendly workflows.
- Skilled in automating CLI generation from [OpenAPI](#) specification files.

This profile is tailored for a developer who excels in backend and cloud services integration, viewing these elements as the critical foundation of the platform,

and who can then effectively apply their skills to frontend development to create a cohesive, user-focused experience.

Bonus Skills

- Experience with cloud infrastructure and services [Hugging Face](#), [Weights & Biases](#)
- Experience in training DNN models using [Pytorch](#) (or [TensorFlow](#)).

Your Work Environment

- Fully remote position utilizing [SCRUM](#) methodology.
- Utilization of [Docker](#) and [Docker Compose](#).
- Workflow managed through [GitHub Projects](#), [GitHub Workflow](#), [GitHub Pages](#) ([Quarto](#)),

Contract Period

6 months from March to August / 3 months from June to August

Monthly Pay

Contracts facilitated through [UKKO.fi](#).

- 3,000+€ PhD student
- 2,600-2,800€ Master student
- 2,100-2,400€ Bachelor student

How to Apply

Interested in this groundbreaking opportunity? Direct your application to [Hiroshi Doyu](#) <hiroshi.doyu@ninjalabo.ai>