



RustCoder

夏歌

WasmEdge/LlamaEdge

- Rust 编码助手, 可以解释 Rust 概念、编写 Rust 代码、完成 Rust 算法并修复错误。
- 兼容 OpenAI API: 可以与任何流行的 AI IDE 集成, 如 bolt.new、cursor、Zed 和 Continue
- Powered by Open Source
 - 运行时: WasmEdge
 - 模型: QwenCoder
 - 知识: 书籍、Rust 示例和数据结构与算法 (Rust 语言)
 - Host: Gaia

Config option	Value
API endpoint URL	https://rustcoder.gaia.domains/v1
Model Name (for LLM)	rustcoder
Model Name (for Text embedding)	nomic-embed
API key	Empty or any value



题目3: 实现一个 Rust 算法, 输入是人数(≥ 2), 计算任意一天同时存在两个及以上的人过生日的概率, 保留四位小数。

输入: 50

输出: 0.9704

输入: 61

输出: 0.9951

- 许多开源模型现在支持长达 128k token 的长上下文长度，例如 llama-3.2-3B 和 Qwen-2.5-coder
- 更长的上下文长度可以处理大量文本，但也有弊端：
 - 推理时间增加。
 - 计算资源要求更高。
- 我们的解决方案：
 - 根据用户问题选择并提供最相关的章节或部分作为上下文。
 - 优化效率，同时保持高质量的响应。

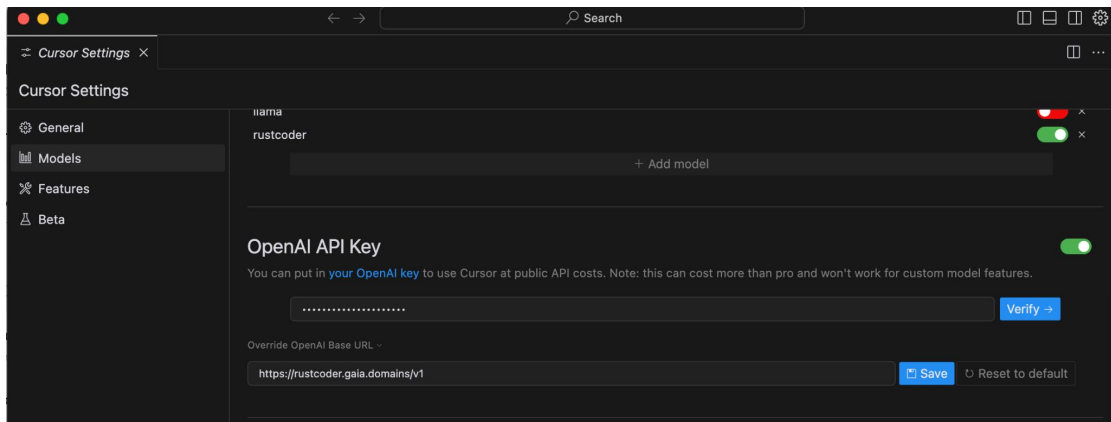


search	What can you use as the backend LLM API when configuring the Dify framework?: When configuring the Dify framework, you can use any GaiaNet node as the backend LLM API. This allows you to utilize either your own GaiaNet nodes or those available in the community for any application built on Dify. Additionally, you can choose to use a popular GaiaNet node listed on the GaiaNet platform.
source	--- sidebar_position: 2 --- # Dify + GaiaNet You can configure the Dify framework using any GaiaNet node as the backend LLM API. That allows you to use your own or community GaiaNet nodes in any application built on Dify. It supports * The hosted [Dify.ai](https://dify.ai/) service. * Products and services with embedded Dify framework, such as the [Terminus](https://www.jointerminus.com/) project. * Any product that is built on the open source [Dify framework] (https://github.com/langgenius/dify). ## Steps First, log into Dify's web portal and select 'Settings Model Provider'. From the list, you can add an OpenAI-API-compatible provider. Add an LLM model with the model name and API endpoint listed on your GaiaNet node's web dashboard. Or, you can just add [a popular GaiaNet node](../nodes). Leave the API Key field empty. ! [Configure a GaiaNet Llama3 8b model in Dify](dify_chat.png) Most Dify applications also require an embedding model to search text in the vector space. Add an embedding model with the model name and API endpoint listed on your GaiaNet node's web dashboard. Or, you can just add [a popular GaiaNet node] (../nodes). Leave the API Key field empty. ! [Configure a GaiaNet embedding model in Dify] (dify_embedding.png) That's it. You can now see that the new models are available at the top panel of Dify for every chatbot or agent. Just select your GaiaNet models for chat or embedding, and the Dify app will automatically use it! ! [Select a GaiaNet node as backend model in Dify](dify_select.png) ! [Chat with the GaiaNet Llama3 8b model in Dify](dify_chatbot_ui.png)



如何使用 RustCoder

通过与 OpenAI 完全兼容的 API Point 与 AI IDE 相结合, 比如 Cursor 和 Zed



```
Open recent project
< →  untitled  ● settings.json  ~/.config/zed
~/.config/zed/settings.json

1  {
2    "features": {
3      "inline_completion_provider": "none"
4    },
5    "language_models": {
6      "openai": {
7        "version": "1",
8        "api_url": "https://rustcoder.gaia.domains/v1",
9        "low_speed_timeout_in_seconds": 60,
10       "available_models": [
11         {
12           "name": "rustcoder",
13           "max_tokens": 8096
14         }
15       ]
16     }
17   },
18   "assistant": {
19     "provider": "openai",
20     "default_model": {
21       "provider": "openai",
22       "model": "rustcoder"
23     },
24     "version": "2"
25   },

```

Cursor + RustCoder Demo

A Qwen2.5-Coder-7B node with Rust language docs

Step 1: Install GaiaNet node

```
curl -sSfL 'https://github.com/GaiaNet-AI/gaianet-node/releases/latest/download/install.sh' | bash
```



Step 2: Init with the Qwen2.5 Coder 7B model and [Rust books](#)

```
gaianet init --config https://raw.githubusercontent.com/GaiaNet-AI/node-configs/main/qwen-2.5-coder-7b-instruct_rust
```



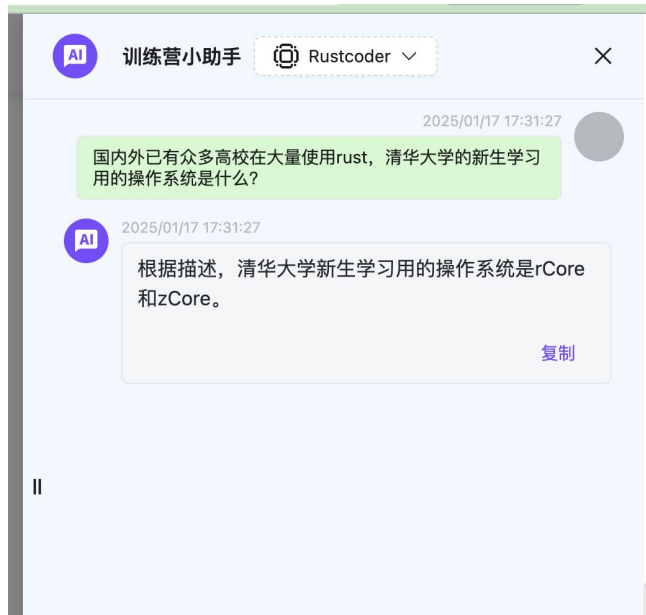
Step 3: Start the node


```
gaianet start
```



Now you can [use the node](#) as a web-based chatbot or as an OpenAI API drop-in replacement.

- 将 RustCoder 与 Rust Playground 集成
 - 利用 Rust 编译器强大的错误检测功能
 - 使用错误消息和 RustCoder 高效地调试生成的 Rust 代码。
- 支持更多的 Rust 知识库



 **Learning Rust Community**

Camps

Camp List

- ▼ Rust Beginners Learning Camp (...)
 - Stage 0: Pre-class
 - Stage 1: Basics
 - Stage 2: Professional
 - Stage 3: Projects

Rust Beginners Learning Camp (Data Structures and Algorithms)

📅 Date: 2025/01/17-2025/03/09
👤 Organized by: Rust 基金会
RustCC 社区
SecondState
清华大学开源操作系统训练营 联合主办

Growth Path

🔄 Preliminary understanding of the training camp
第一期 Rust 入门训练营 (数据结构与算法)



报名入口



Resource

LlamaEdge: <https://github.com/LlamaEdge/LlamaEdge>

Gaia: <https://github.com/GaiaNet-AI/gaianet-node>

Moly: <https://github.com/moxin-org/moly>

如果大家对这样的 agent 有兴趣，欢迎与我联系！



扫一扫上面的二维码图案，加我为朋友。