



AI Application Engineer (Online Travel Service)

Global Environment

Job Information

Recruiter

Skillhouse Staffing Solutions K.K.

Job ID

1572507

Industry

Internet, Web Services

Company Type

Large Company (more than 300 employees)

Non-Japanese Ratio

About half Japanese

Job Type

Permanent Full-time

Location

Tokyo - 23 Wards

Salary

8 million yen ~ 11 million yen

Work Hours

9:00 - 18:00

Holidays

National holidays, Paid leave, Family leave etc.

Refreshed

January 29th, 2026 00:00

General Requirements

Minimum Experience Level

Over 3 years

Career Level

Mid Career

Minimum English Level

Business Level

Minimum Japanese Level

Business Level

Minimum Education Level

Bachelor's Degree

Visa Status

Permission to work in Japan required

Job Description

A Global IT Service firm is seeking an **AI Application Engineer**.

Responsibilities:

- You will lead the development of next-generation AI agents
- Working closely with business stakeholders, you will drive the system design, implementation, and production operations of autonomous AI agents that support both end users and accommodation partners
- Design and develop AI agents for key business use cases such as search, booking, and customer support, including orchestration across MCP, tools, and backend systems
- Define functional and non-functional requirements for AI agents based on business needs and user pain points
- Implement and continuously improve AI agent and MCP platforms using LLM APIs (e.g., OpenAI, Vertex AI, Azure OpenAI) and modern agent frameworks
- Design context management through knowledge bases and RAG architectures, and integrate with internal and external APIs/systems (e.g., tool invocation, multi-agent communication)
- Define conversation-quality metrics, build automated evaluation and test cases, and continuously drive quality improvements based on user logs and feedback
- Own deployment, monitoring, and troubleshooting in production environments, and plan A/B tests to evaluate the effectiveness and improve the system
- Establish and refine development processes (e.g., Docker, CI/CD), providing technical leadership to the team through code reviews, mentoring, and knowledge sharing

Why should you apply:

- This is a long-term opportunity with a chance to become a permanent employee
- You will be working with international team members
- Free breakfast, lunch and dinner at the cafeteria

Company Details:

A global company with a strong presence in multiple business areas. It has achieved sustained growth both domestically and internationally, including in the U.S. and Europe. The company boasts a diverse and international environment and is committed to equal opportunity, offering a wealth of career opportunities. Due to the diverse nature of our business, we handle a wide range of technologies! You can also choose the environment you are most comfortable with, such as Windows/Mac! Meals in the company cafeteria are also free. Our chefs are always coming up with new menu items, so you can enjoy your meal without getting bored!

Services/Benefits: Social insurance, Pension Plan, Childbirth, Childcare, and Caregiving, Transportation and so on.

Required Skills

- 5+ years of experience developing systems that incorporate machine learning/AI
 - 2+ years of experience leading projects end to end, from system design to production release, for systems using machine learning/AI (experience with AI agent-related products is a strong plus)
 - Hands-on experience developing AI agents/MCP using AI agent frameworks such as OpenAI Agent SDK, Google ADK, etc.
 - Experience in context engineering to personalize AI agent behavior and optimize response quality
 - Experience designing evaluation framework for AI agents and automating evaluation workflows
 - Experience working in cross-functional teams
 - Experience validating impact based on the product KPIs, and driving continuous improvement through A/B testing
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Company Description