



## 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.

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**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**