



No Japanese Required Backend Engineer

English speaking role

Job Information

Recruiter

PROGRE Ltd

Hiring Company

AI company

Job ID

1561704

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, Shinjuku-ku

Salary

7 million yen ~ 13 million yen

Salary Bonuses

Bonuses included in indicated salary.

Work Hours

10:00～19:00

Holidays

完全週休二日制 所定休日：土・日・祝日 休暇：年次有給休暇、夏季休暇（3日）、年末年始休暇（12月31日～1月3日）、慶弔休暇

Refreshed

February 4th, 2026 08:01

General Requirements

Minimum Experience Level

Over 6 years

Career Level

Mid Career

Minimum English Level

Business Level (Amount Used: English Only)

Minimum Japanese Level

None

Minimum Education Level

Bachelor's Degree

Visa Status

Permission to work in Japan required

Job Description

Role Summary

As a Backend Engineer, you will lead the design, development, and operation of backend systems for a product suite. You will design and build scalable, robust backend architectures and technical foundations for next-generation products utilizing AI agent technologies and large language models. We expect you to contribute to enhancing product value through collaboration with cross-functional teams.

Why You'll Love This Role

- **Cutting-edge voice AI technology challenges:**
 - Work on next-generation voice dialogue systems combining ASR/TTS/LLM technologies
- **Real-time processing expertise:**
 - Build highly marketable expertise through designing and operating low-latency voice streaming infrastructure using WebRTC/Twilio
- **Frontline of customer problem-solving:**
 - Engage directly with customers across diverse industries and experience the impact of solving their challenges with technology
- **Socially impactful product development:**
 - Work on high-impact projects directly contributing to corporate productivity improvements, such as call center efficiency and sales support
- **Collaboration with diverse talent:**
 - Grow in a stimulating environment working alongside talented members from diverse backgrounds including AI engineers, SREs, PdMs, Sales, and CS
- **Balance of personal and organizational growth:**
 - Thrive in a dynamic field that balances individual growth with organizational development while adapting flexibly to rapid change

Responsibilities

- **AI Product Development**
 - Design, develop, and operate backend systems for AI products
 - Implement AI agent systems utilizing large language models (LLMs)
 - Develop APIs for real-time speech processing and speech synthesis systems
 - Build and optimize natural language processing pipelines
- **System Architecture & Infrastructure**
 - Design distributed systems using microservices architecture
 - Design and implement scalable APIs for high-traffic scenarios
 - Containerization and Kubernetes operations on GCP
 - Database design and query optimization for large-scale data processing
- **Development Process & Quality Improvement**
 - Build and improve CI/CD pipelines
 - Promote code reviews and test automation
 - Build monitoring and log analysis systems
 - Implement and operate based on security requirements
- **Machine Learning & AI Integration**
 - Integrate and deploy machine learning models to production environments
 - Build and operate MLOps pipelines
 - Optimize inference API performance and reduce latency
 - Develop A/B testing infrastructure and support data analysis
- **Team Collaboration & Technical Leadership**
 - Collaborate with cross-functional teams (designers, product managers, project managers)
 - Participate in technical selection and architecture decisions
 - Research new technologies, build prototypes, and conduct technical validation
 - Improve and automate development processes

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Work Style

Hybrid work model: 3 days in the office, 2 days remote.

Required Skills

Minimum Qualifications

- Bachelor's degree in Computer Science, Software Engineering, Artificial Intelligence, Machine Learning, Mathematics, Physics, or related fields, or equivalent practical experience
- 5+ years of application development experience using Python
- 3+ years of experience developing complex SaaS products or high-traffic B2B products
- 3+ years of experience with cloud services (AWS, GCP, Azure) and container technologies (Docker, Kubernetes)
- Experience working at startups or growth-stage companies, or equivalent environments
- Knowledge of and passion for AI-related technologies
- Language requirements (either):
 - Japanese: Fluent (able to discuss product development without misunderstandings)
 - English: Business level

Preferred Qualifications

- Experience building systems utilizing natural language processing or machine learning
- Experience developing machine learning models with Python, TensorFlow, or PyTorch
- Experience with chatbot, speech recognition systems, or AI agent development
- Experience launching new businesses/products from the 0→1 phase
- Full-stack application development experience
- Bilingual (Japanese/English)

Company Description