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Backend / GIS Engineer: Next-Generation AI System

Flextime&Remote Work★In-house Services

Job Information

Recruiter

[G Talent at Bizmates, Inc.](#)

Hiring Company

◆Mobility-Related Business◆

Job ID

1562940

Industry

Other

Job Type

Permanent Full-time

Location

Tokyo - 23 Wards

Salary

6 million yen ~ 12 million yen

Work Hours

Flextime System

Refreshed

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General Requirements

Minimum Experience Level

Over 3 years

Career Level

Mid Career

Minimum English Level

None

Minimum Japanese Level

Business Level

Minimum Education Level

High-School

Visa Status

Permission to work in Japan required

Job Description

[About the company]

The company is involved in mobility-related business, such as safety management support for companies that manage fleets.

- Next-Generation AI Dashcam Service: Developing and operating a service that supports accident reduction.
- Next-Generation Data Utilization Platform: Projects focused on developing next-generation data utilization platforms, such as the automatic extraction of differences in road information.
- Driving Management Support Service: Developing and operating services for managing the driving of commercial vehicles.

[Job Description]

[Overview]

The company is developing services that leverage massive volumes of video, location, and sensor data collected from vehicles equipped with its next-generation AI dashcam service. This data is analyzed by AI to detect and utilize various road information, such as signs, signals, and road markings.

One of these services involves automatically extracting the differences between the latest road information and existing map data, and notifying map companies. This enables map companies to update maps more quickly with real-world changes, thereby establishing the maintenance framework required for the high-definition maps essential for the era of autonomous driving.

The company invites you to join them in creating mobility data products that contribute to the realization of safer and more efficient mobility.

[Responsibilities]

You will be responsible for the design, development, and operation of a data pipeline that collects location, sensor data, and video from vehicles equipped with the company's AI dashcam service. This pipeline handles data transformation, cleansing, machine learning inference, extraction of map change information, and final output.

Furthermore, this is a role where individuals with diverse skill sets can thrive. Beyond data pipeline development, you will also be involved in:

- Developing algorithms to improve location accuracy and achieve efficient data collection.
- Developing Web tools for internal use and for map companies.

[Recruitment Background]

The company must concurrently pursue two major goals: strengthening its infrastructure to handle the massive volume of data generated by its growing services, and developing new features and products to expand its business.

To achieve this, the company is recruiting Backend Engineers with expertise in geospatial information (GIS) and data engineering. This role involves working directly with customers to handle the entire lifecycle, from requirements definition to development and operation. They are seeking motivated candidates who resonate with the mission of these projects.

[Challenges You Will Solve]

- System Improvement: Improving the system for the stable collection and processing of a massive volume of dashcam data.
- Monitoring: Building a monitoring system for the large-scale data pipeline.
- Accuracy: Improving the location accuracy of detected road information.
- New Development: Creating new content and systems using the vast amount of dashcam data.

[Position Highlights]

The greatest appeal of this position is the opportunity to be involved in data product development by leveraging the immense volume of data collected from the company's proprietary dashcams installed in over 90,000 contracted vehicles.

Furthermore, this is a highly attractive environment for Geospatial Information Technologists and GIS Engineers because you can contribute to the realization of the next-generation map update system, which is essential for autonomous driving.

You will have the opportunity to be deeply involved in the launch of new geospatial data products from both an engineering and business perspective.

[Development Environment]

Languages: Go, Python, TypeScript
 Databases: Amazon Aurora PostgreSQL, BigQuery
 Infrastructure: AWS, GCP
 Infrastructure as Code (IaC): AWS CDK, Terraform
 Source Control: GitHub
 CI/CD: GitHub Actions
 IDEs: IntelliJ, Visual Studio Code
 GIS Tools: PostGIS, QGIS

[Your Team]

You will join a small, elite organization of four backend/data engineers.

The engineers handle the entire process end-to-end, from defining requirements with clients/partners to designing, implementing, and operating the system. The team is dedicated to developing truly necessary data products by maintaining constant communication with customers. System development and improvement are carried out in close collaboration with the data scientist team, which is responsible for developing machine learning models.

[Working conditions]**Holidays**

- Saturdays, Sundays, and national holidays
- Paid leave (Up to 10 days in the first year, depending on the month of hire*Granted on the hire date)
- Year-end and New Year holidays
- Special leave for family events
- Caregiving leave (Up to 5 days per year per family member requiring care)

Employee Benefits

- Full social insurance coverage
- New Normal Allowance (¥20,000 monthly)
- Welcome Lunch Program
- Book Purchase Program

- Technical Conference Attendance Support (Domestic & International)
 - Club Activity Program
 - Casual Attire Permitted
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Required Skills

■Required

- Development and operations experience with Go/Python (or experience with statically typed languages and ability to catch up)
- Development experience with systems involving spatial information/GIS/maps
- Development experience using SQL
- Team development experience using Git and services like GitHub
- Development, operations, and maintenance experience in Linux environments
- Development experience using Docker
- Experience building, operating, and maintaining databases
- Experience developing and operating services using public clouds like AWS or GCP

■Preferred

- Advanced expertise in spatial information / GIS / mapping
- Experience developing systems that perform inference using machine learning models
- Experience managing AWS infrastructure using AWS CDK (TypeScript)
- Experience developing pipelines for data acquisition, processing, and ingestion
- Experience launching services from scratch through direct customer communication
- Experience developing frontend and backend components for web systems
- Standard driver's license (preferred as domain knowledge, not required for driving in the job)

■Ideal Applicants

- Shares a passion for the evolution of mobility and mapping technologies, as well as social contribution, and can proactively think beyond just technology to consider the entire business
 - Is committed to technology, executes their work without compromising on quality until the very end
 - Communicates respectfully with others
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Company Description