

**Job Title:** Senior Backend Engineer

**Employment Type:** Full-time

**Salary** - Upto 15M

# WOTA

**Location:** 1-13-13 Bakurocho, Chuo-ku, Tokyo, Japan

**Working Hours:**

- Flexible working hours with a standard of 8 hours per day
- Core hours: 10:00 AM - 4:00 PM

**About this Job:**

**Background of Recruitment:** WOTA Co., Ltd., founded in 2014, is a startup company focused on solving the global water problem. We are building non-reliant water infrastructure systems for disaster response and areas with limited water resources. With our recent expansion overseas, we are seeking passionate and ambitious engineers to join our mission of fundamentally solving water issues and promoting a recycling-oriented society.

**The Potential of WOTA:**

- **Leadership in Global Expansion:** Recognized globally for our innovative water technologies, with participation in COP28 and the prestigious Earthshot Award.
- **Socially Meaningful Technology:** Our water circulation technology is pivotal in addressing climate change and water resource challenges.
- **Organizational Structure:** Emphasizing independence and bold challenges, we foster an environment where individuals can thrive and contribute significantly.

**Company Profile:** WOTA aims to create a world where everyone can freely use water. We develop and sell innovative water recycling systems, including:

- **WOTA BOX & WOSH:** Autonomous water circulation systems for disaster scenarios and daily use, showcased in the Noto Peninsula Earthquake relief efforts.
- **Next Generation Products:** Currently developing household water circulation systems aimed at platforming water infrastructure.

**Mission Details:** [WOTA Mission](#)

**Specific Tasks:**

- Back-end development for applications related to WOTA's products
- Development of IoT device platforms and edge computing using AWS Greengrass
- Building sensor data collection and analysis pipelines

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With regard to the information contained in this CV you are bound by **Computer Futures** terms of Business which are enclosed

- Designing and implementing device control systems and machine learning systems
- Infrastructure design and construction, including serverless architecture and large-scale sensor data management

**Development Environment:**

- **Backend:** TypeScript, AWS Lambda, AWS Kinesis, AWS StepFunctions, tRPC
- **IoT Base:** AWS IoT Core, AWS Greengrass
- **Database:** DynamoDB
- **Serverless Infrastructure:** API Gateway, EventBridge, AWS Cognito
- **Data Infrastructure:** AWS S3, AWS Athena, AWS Glue, Redash
- **Monitoring:** CloudWatch, X-Ray
- **CI/CD:** GitHub Actions, Renovate
- **Tools:** GitHub Copilot
- **Communication:** Slack, Notion

**Opportunities for Growth:**

- IoT Platform Development: Edge computing, large-scale device management, real-time data processing
- Machine Learning: Developing models using sensor data, edge device inference systems
- Cloud Infrastructure: Serverless architecture design, scalable system design, robust operational foundations
- Data Engineering: Large-scale sensor data collection, efficient data storage, building data pipelines

**Development Team:** Led by an engineering manager with over 20 years of experience at Sony, the team includes experts from various fields, committed to developing groundbreaking water infrastructure products.

**Required Skills:**

- At least 3 years of back-end development experience
- At least 2 years of TypeScript development experience
- Experience with serverless applications using AWS
- Cloud architecture design experience
- Experience with Infrastructure as Code (IaC)
- Automated testing implementation experience
- Team development experience using GitHub

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**Preferred Skills:**

- Functional programming experience
- AWS IoT Core and Greengrass development experience
- Edge computing hands-on experience
- Machine learning model development and operation experience
- Experience with large-scale systems using DynamoDB
- Experience with designing and building data infrastructure
- Observability design and implementation in a cloud environment
- Security design insights
- Development in environments with high uncertainty
- Hypothesis testing through prototyping
- Consistent experience from system design to release

If you are interested in this position, please contact Kasun Aravinda at +8150-3133-4967 or via email at [k.aravinda@computerfutures.com](mailto:k.aravinda@computerfutures.com)