

Position: Senior Backend Engineer

About Bluemvmt

At Bluemvmt, we're revolutionizing data innovation through our cutting-edge cloud platform that transforms how organizations collect, explore, and leverage time series data from IoT devices. Our platform features automatic data and model versioning, intuitive sharing, and advanced orchestration systems—all powered by state-of-the-art conversational AI. We enable seamless collaboration and empower users to unlock the full potential of their data through intelligent automation.

Position Overview

We're seeking a Senior Backend Engineer to work closely with product managers, frontend developers, and other backend engineers to implement APIs and services supporting the Bluemvmt platform. You'll develop Python-based APIs using FastAPI, Pydantic, and SQLAlchemy, deployed to Kubernetes via Docker and Helm Charts. The ideal candidate will also have AI development/infrastructure experience and expertise in managing Kubernetes clusters with Terraform.

Key Responsibilities

- Design, develop, and maintain scalable backend services using Python
- Collaborate with front-end engineers, product managers, and other stakeholders to deliver high-quality features
- Lead backend architecture discussions and contribute to system design decisions
- Build scalable services using Kafka
- Write clean, maintainable, and well-documented code
- Mentor junior engineers and provide technical leadership

Requirements

- 5-7 years of backend engineering experience
- Strong expertise with FastAPI, Pydantic 2, and SQLAlchemy frameworks
- SQL experience, preferably PostgreSQL
- CI/CD experience, preferably GitHub Actions
- Familiarity with cloud services (AWS, GCP) and containerization (Docker, Kubernetes)
- Excellent communication and collaboration skills

Preferred Qualifications

- Background in sonar or LiDAR data processing
- Understanding of bathymetric analysis and underwater mapping
- Background in Oceanography or similar research
- Scalable Kafka development experience
- Experience with PgVector or other vector databases

- AI experience, including deployment of private LLMs and basic RAG development highly desirable.
- Terraform expertise
- Experience with Apache Druid
- Experience developing with the Kubernetes Python client

Education

Master's degree or PhD in Computer Science, Engineering, or related field (highly desirable)
Bachelor of Science in Computer Science (required)

Position Details

- Contract-to-hire (3-month initial contract, potential extension to 6 months or conversion to full-time)
- Remote work position
- **Must be a US citizen**
- **Must be able to obtain security clearance or higher**
- Flexible schedule (Monday to Friday, weekends as needed)
- Benefits include flexible schedule

Required Experience

- Machine learning frameworks: 3 years
- Python: 6 years
- SQL: 5 years (preferred)
- English language proficiency

Bluemvmt is an equal opportunity employer committed to building a diverse workforce. We believe different perspectives create stronger teams and drive innovation. We encourage applications from candidates of all backgrounds.