Software Engineer (Full Stack / Management Path), ActiveScale

Permanent position / Full-time

Ghent – Belgium (hybrid)

With over 40 years of innovation, Quantum's end-to-end platform is uniquely equipped to orchestrate, protect, and enrich data across its lifecycle, providing intelligence and actionable insights. Leading organizations in cloud services, entertainment, government, research, education, transportation, and enterprise IT trust Quantum to bring their data to life, because data makes life better, safer, and smarter.

Quantum Corporation (QMCO) is a NASDAQ publicly traded company. For more information visit www.quantum.com.

We are looking for a Software Engineer to strengthen our engineering organization at the ActiveScale development center of Quantum in Ghent, Belgium. ActiveScale is Quantum's high-performance object storage platform, designed to scale to exabyte levels while meeting enterprise requirements for durability, performance and operability. See for yourself at https://www.quantum.com/en/products/object-storage/

This role is ideal for engineers who enjoy working across layers, owning components end-to-end, and contributing to the design and ease of use of large, distributed systems.

Your role

As a Software Engineer in the management path team, you design, implement, and maintain services and workflows that orchestrate ActiveScale clusters at scale. You work across APIs, services, databases, and operating system interactions to ensure the system is reliable, maintainable, and operable.

Your responsibilities

- Together with your team, you're responsible for:
    - Framework Development: Collaborate closely with cross-functional teams to design, develop, and maintain the distributed object storage framework. This includes the graphical user interface (GUI), REST interface, and distributed task orchestration engine.
    - API Design: Establish and maintain well-documented APIs that facilitate seamless configuration, monitoring, and management of distributed storage nodes.
    - Persistence Layer: Implement and maintain a robust and efficient persistent model for storing configuration and monitoring data within the object storage system.
    - Distributed Task Orchestration: Design and optimize the task orchestration engine to effectively manage tasks across distributed nodes, ensuring both fault tolerance and top-notch performance.
    - Node Provisioning and Monitoring: Create logic for provisioning and monitoring all nodes in the distributed setup, ensuring high availability and scalability.

- Produce clean, maintainable, and well-documented code, following established coding standards.
- Create comprehensive unit, component, and integration tests to validate functionality and prevent regressions.
- Use our CI pipelines to validate changes, iterate, and maintain a stable delivery process.
- Participate in code reviews, providing and receiving constructive feedback.
- Drive features from concept to completion: prototype, iterate based on peer input, and deliver production-ready functionality with sufficient automated testing.
- Prepare and deliver clear demos of new functionality to peers and stakeholders, sharing progress and collecting useful feedback.
- Collaborate with cross-functional and distributed teams to refine designs, improve existing features, and ensure customer-centric decision-making.

Skills and expertise

- Bachelor's or master's degree in computer science, software engineering, information technology, information systems, or a related field, or equivalent experience.
- Proficiency in at least one of the following languages: Python, Go, or a willingness to learn additional languages.
- Administration and troubleshooting of Ubuntu Linux.
- Familiarity with Ansible for automation.
- Understanding Cloud and Enterprise storage concepts and products.
- Familiarity with scaling concepts such as sharding, networking, and distributed computing.
- Ability to collaborate effectively within a global and distributed team.

Skills considered a plus

- Knowledge of Amazon's AWS S3 API, SDKs, and tools.
- Experience with object storage and distributed systems.
- Proficiency in algorithms for concurrency, thread safety, and memory management.
- Familiarity with version control systems like Git, continuous integration with Jenkins, and containerization using Docker.
- Experience with NoSQL databases like MongoDB.
- Experience with frameworks such as React and/or design tools like Figma.

We know the confidence gap and imposter syndrome can get in the way of meeting amazing candidates. Please consider applying, even if your background and experience don't meet every bullet point in this job post — we'd love to hear from you.

Personality

- You take ownership and responsibility for the software you build.
- You are pragmatic, curious, and motivated to improve complex systems.
- You welcome feedback from peers through code review and pair programming.
- You appreciate working in an environment with clear coding guidelines and high standards for code quality.

What we offer

- Working at Quantum means that you will be working in a team with seasoned and passionate experts in their respective domains. As a team, we eat complex challenges for breakfast, such as building a high-performance Exabyte Storage System that makes datacenters worldwide 'Cloud Storage-ready'.
- You are the key to success for Quantum. That's why you will get a competitive salary, a company car, a complete insurance package, meal vouchers, a mobile phone, and an Internet subscription.
- Flexible working hours and a hybrid work model (3 days on site)
- A culture that values learning, ownership, and long-term thinking.

Quantum is an equal opportunity employer. All employment decisions shall be made without regard to race, age, religion, color, marital status, national origin, gender, gender identity or expression, sexual orientation, or disability.