

Position: Principal Analyst (Senior Software Engineer – Tech Lead)

 Bengaluru, Karnataka

Factspan Overview:

Factspan is a pure play data and analytics services organization. We partner with fortune 500 enterprises to build an analytics center of excellence, generating insights and solutions from raw data to solve business challenges, make strategic recommendations and implement new processes that help them succeed. With offices in Seattle, Washington and Bengaluru, India; we use a global delivery model to service our customers. Our customers include industry leaders from Retail, Financial Services, Hospitality, and technology sectors.

About the Role

We are seeking a Senior Software Engineer / Tech Lead to drive the architecture, development, and optimization of our data-heavy applications. This role blends deep backend engineering expertise, product-oriented data modeling, and lightweight program leadership. You will own technical design, guide a small team, and partner with product & business stakeholders to deliver scalable, low-latency solutions.

Key Responsibilities:

Technical Leadership

- Act as tech lead for one or more modules, providing guidance on design, best practices, and code quality.
- Collaborate with stakeholders to define technical roadmaps, priorities, and tradeoffs.
- Review designs and mentor engineers, raising overall team technical standards.
- Ensure architecture balances latency, scalability, and maintainability.

Backend & Systems Architecture

- Build and optimize low-latency APIs and services using Node.js, Python (Django/FastAPI/Flask).
- Architect microservices and event-driven systems with Kafka, Redis, Docker, Kubernetes.
- Optimize database schemas, queries, and caching strategies (Postgres, MongoDB, Redis).

Data-Heavy Product Engineering

- Design data models and schemas that align with product features and analytics.
- Use Pandas, Polars, and Python libraries to transform and serve large datasets.
- Generate efficient data frames & JSON payloads for frontend dashboards and reporting.

Stakeholder Communication & Program Ownership

- Work with product managers, designers, and business teams to translate requirements into technical execution.
- Provide regular technical updates, ensuring alignment on timelines, risks, and dependencies.
- Manage lightweight program aspects: scoping, milestones, delivery tracking.

Quality, Performance & Reliability

- Implement unit, integration, and performance testing across data workflows.
- Drive performance benchmarking & profiling to achieve sub-second latency.
- Ensure systems meet high standards of reliability, security, and observability.

Required Skills

- 5–8 years of experience in software engineering, with at least 1+ years acting as a tech lead or senior contributor.
- Strong in Node.js, Python (Django/FastAPI/Flask), and JavaScript/TypeScript.
- Proven experience with data modeling and architecting systems for low latency & scale.
- Proficiency with SQL & NoSQL databases (Postgres, MongoDB, Redis).
- Experience with microservices, event-driven systems, caching, Docker/Kubernetes.
- Excellent communication skills — able to interact with engineers, product managers, and business stakeholders.
- Strong ability to balance technical depth with program delivery.

Nice to Have

- Experience in fintech, SaaS, analytics, or other data-heavy product domains.
- Exposure to React/TypeScript or data visualization frameworks.
- Familiarity with observability tools (Grafana, Prometheus, ELK).
- Prior experience managing small squads or feature pods.

Who You Are

- A hands-on engineer first, but comfortable playing the role of a tech lead.
- Enjoy solving low-latency, high-scale challenges.
- Strong communicator who can bridge the gap between engineering and business.
- Excited to own end-to-end delivery: from architecture to execution to stakeholder sign-off.

If you are passionate about leveraging technology to drive business innovation, possess excellent problem-solving skills, and thrive in a dynamic environment, we encourage you to apply for this exciting opportunity. Join us in shaping the future of data analytics and making a meaningful impact in the industry

Why Should You Apply?

Grow with Us: Be part of a hyper-growth startup with great opportunities to Learn & Innovate.

People: Join hands with the talented, warm, collaborative team and highly accomplished leadership.

Buoyant Culture: Embark on an exciting journey with a team that innovates solutions, tackles challenges head-on and crafts a vibrant work environment.