Songtaek Lee

Software Engineering Manager
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Professional Summary

Results-driven Technical Software Engineering Manager with 18+ years of experience leading enterprise-wide digital transformation across utilities, energy, telecommunications, and healthcare. Unique technology leader with dual expertise in software engineering and licensed Respiratory Therapy, offering a strong blend of technical and clinical insight. Experienced in managing cross-functional teams of developers and testers, with certification in Azure Fundamentals and a strong background in vendor management to ensure alignment of business and technical requirements.

Proven track record in modern engineering practices including DevSecOps, test-driven design, and domain-driven design, consistently delivering scalable, secure, and resilient platforms. Recognized for guiding large-scale modernization initiatives, introducing Agile frameworks, and driving adoption of next-generation tools to reduce technical debt and accelerate delivery. Adept at fostering collaboration across business and technology groups to achieve mission-critical outcomes

Key Skills

- Enterprise-Level Digital Transformation & Strategy
- Cloud Smart & Hybrid IT (OpenShift, VMware, Oracle, MuleSoft, OIC)
- Technology leader, expert in OOO programing, design patterns, domain driven design
- 7+ years in Spring Boot, MVC, hibernate, and MVC.
- Maximo/MAS Work & Asset Management
- Integration Frameworks (Kafka, MQ, REST, Event Streaming)
- Legacy Modernization (Mainframe, Vendor to Open Source)
- Cross-Functional Leadership & Program Management
- Cost Optimization & Resource-Constrained Delivery
- Agile Delivery & Change Leadership
- Full stack development

Technical Skills

Java/J2EE, docker, Kubernetes, CICD, microservices, C# .NET, C, C++, SOA, Web Services, Eclipse, Unix/Linux, XML/XSD/XSLT, CVS/SVN, GIT, Maven, Ant, Hudson, TIBCO Business Studio, TIBCO Designer, Contivo, Nodejs, web development, java script, CSS, Maximo, FSE, React, JIRA, Agile, certification in Azure fundamentals, DevSecOps, Gerkin, Mockito

Professional Experience

Ameren – St. Louis, MO   **03/2020 – 09/2025**
Software Engineering Manager   **(03/2023 – 09/2025)**
- Led a high-performing engineering team of 10 (7 developers, 3 testers), driving delivery of enterprise-scale work and asset management solutions while fostering a culture of collaboration, accountability, and continuous improvement.
- Directed end-to-end software delivery—from requirements and architecture through deployment and hypercare—ensuring solutions met business objectives, security standards, and enterprise architecture guidelines.
- Championed agile transformation, implementing Scrum practices that improved delivery velocity, predictability, and cross-functional collaboration with product, design, and QA teams.
- Drove strategic modernization by architecting an integration framework and leading migration to MAS 9 on OpenShift/VMware, balancing cloud-smart strategy with cybersecurity and compliance requirements.
- Partnered with cybersecurity, finance, and operations leaders to align technical roadmaps with enterprise compliance, budget, and regulatory priorities.
- Optimized AWS EC2 capacity planning for MAS, ensuring performance and cost efficiency through proactive monitoring, right-sizing, and provisioning strategy.
- Strengthened vendor management by coordinating with third-party providers and integration partners, ensuring timely delivery of scalable, secure solutions.
- Mentored and coached engineers at all levels, providing technical guidance, career development support, and performance feedback to grow future leaders.
- Recognized for successfully leading an enterprise Maximo upgrade (7.6.0.9 → 7.6.1.3) under budget and ahead of schedule by leveraging AI-driven automation.
- Delivered MAS deployment on AWS EC2 and OpenShift (ROSA) to support containerized workloads and enterprise scalability for Generation.
- Elevated organizational risk posture by spearheading a critical system upgrade from unsupported software, restoring vendor support, patching compliance gaps, and eliminating cybersecurity risks.

Lead Software Engineer   **(03/2020 – 07/2023)**
- Served as technical lead overseeing end-to-end solution delivery—requirements, design, development, and deployment—while mentoring junior engineers and fostering best practices in coding standards and architecture.
- Directed modernization of legacy mainframe-based workflows by transitioning to Maximo and architecting a new Customer Service Work Execution system, successfully deployed in 2021.
- Spearheaded system performance enhancements that increased outage work order processing throughput by 733% (3,000 → 25,000 messages/hour), enabling scalable operations and improved service response.
- Designed and built enterprise web application portals consolidating orders from legacy, Maximo, and mobile platforms into a single operational interface, reducing manual effort and streamlining customer support workflows.

- Architected and implemented microservices for core Work & Asset Management processes, enabling advanced search, reconciliation, and synchronization across Maximo and Field Service Edge, improving reliability and data consistency.
- Partnered with cross-functional stakeholders to align modernization initiatives with operational needs, ensuring new solutions delivered measurable business value.
- Provided technical leadership in transitioning from Angular/.NET legacy applications to modern React and microservices-based platforms, strengthening scalability and maintainability.

AT&T   **06/2007 – 03/2020**
Senior Application Developer
- Led development of Common Provisioning Services (CPSVC), establishing coding standards, performing code reviews, and providing solution design.
- Modernized legacy applications by migrating to RESTful Spring Boot microservices using Docker, Kubernetes, and CI/CD pipelines.
- Strengthened security and compliance by implementing SAST/DAST scans, enhancing logging (log4j→ slf4j), and introducing API gateway quota management.
- Authored a Microservices Developer's Guide adopted across teams, standardizing development practices, reducing costs, and accelerating delivery.
- Designed and upgraded the CSI Gateway using Spring Boot, improving scalability and performance.
- Delivered enterprise APIs (modeled and orchestrated) supporting programs such as FirstNet, ERA Consent, and Mobile Collaboration.
- Developed and supported services for Customer Care Profile, Billing, and U-VERSE provisioning, building middleware (EJB, Unix) and SOA services with Model Driven Architecture.
- Designed and deployed services providing FCIF/XDR interfaces to legacy applications.
- Mentored junior developers with detailed technical guides, reducing ramp-up time and improving delivery consistency.
- Recognized with an Employee Award for contributions to the ITOS CSI Platform.
- Resolved complex upstream and downstream integration issues across multiple business systems.
- Troubleshot and resolved integration issues with backend, upstream, and downstream BIS systems.

Barnes Jewish Hospital
Registered Respiratory Therapist
- Worked as a license respiratory therapist in various areas in the hospital delivering patient care and clinical support across critical care, emergency, and therapeutic settings.
- Directed daily board assignments, ensuring optimal coverage of staff across patient care areas.
- Served as a point of escalation for staff supporting problem resolution and fostering a collaborative care environment

Certification
Certification in Azure fundamentals
Licensed Registered Respiratory Therapist in MO

Education
Bachelor of Science in Computer Science – University of Missouri – St. Louis