Songtaek Lee

Software Engineering Manager
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Professional Summary

Results-driven hands-on Technical Software Engineering Manager with 18+ years of experience leading enterprise-wide digital transformation across utilities, energy, telecommunications, and healthcare. Unique technology leader with patient health care licensed Respiratory Therapist professional experience. Manage a team of 10, with 7 developers and 3 testers, C# on .NET framework. Certification in Azure fundamentals. Directed and coordinated efforts with third party vendors, ensuring solutions met both business and technical standards. Expert in modern engineering practices including DevSecOps, test-driven design, and domain-driven design, with a proven ability to deliver resilient, scalable platforms that align technology with business outcomes. Track record of guiding large-scale modernization initiatives, introducing agile frameworks, and driving adoption of next-generation tools across diverse teams. Skilled at building cross-functional alignment, reducing technical debt, and enabling secure, efficient, and sustainable delivery of mission-critical systems.

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)**
- Hands on technical leader. Manage a team of 10, with 7 developers and 3 testers. Collaborated with developers, architect, and vendors to design and implement technology solution for Work and asset management system.
- Implementation leader. Oversaw full lifecycle of enterprise projects- requirements, architecture, integration design, testing, deployment, and hyper care. Architected integration framework for the complex eco system for the work and asset management system.
- Directed and coordinated efforts with third party vendors, ensuring solutions met both business and technical standards.
- Directed capacity planning and provisioning strategy for AWS EC2 instances supporting Maximo Application Suite (MAS), selecting optimal instance sizes and monitoring utilization to align with project and budget requirements.
- Managed cloud infrastructure planning for MAS.
- Partnered with cybersecurity, finance, and operations to align technical design with enterprise architecture and compliance standards.
- Implemented agile methodologies, resulting in improved efficiency and productivity within the software engineering team.
- Collaborated with cross-functional teams including product management, design, and QA to gather requirements, define project scope, and ensure alignment on deliverables.
- Delivered MAS on AWS EC2 instances and OpenShift (ROSA) for container orchestration and scalability for Generation.
- Mentored junior software engineers by providing guidance on best practices, coding standards, and career development opportunities.
- Managed vendor relationships for third-party integrations or outsourced development resources, ensuring timely delivery of high-quality work.
- Conducted regular performance evaluations for team members, recognizing top performers and identifying areas for improvement through targeted training programs.
- Collaborated with product management to prioritize feature development based on customer feedback and market trends.
- Led and delivered enterprise upgrade of the work and asset management system from an unsupported version, eliminating a critical cybersecurity risk, restoring vendor support, and patching compliance.
- Pioneered the use of AI to deliver the project without additional headcount, completing the project on time and within budget despite resource constraints.
- Leading enterprise migration to MAS 9 on OpenShift/VMware, balancing cloud-smart strategy with security and compliance.

Lead Software Engineer   **(03/2020 – 07/2023)**
- Enhanced and maintained front end Angular web app and server-side C# on .NET framework by fixing defects, implementing new features.

- Architected and delivered a Customer Service Work Execution workflow, deployed September 2021 from legacy system to modern system.
- Directed modernization of legacy mainframe-based systems, transitioning to Maximo.
- Spearheaded outage work order processing performance improvements, boosting throughput by 733% (3,000 → 25,000 messages/hour).
- Designed and built a web application portal consolidating orders from legacy stem, Maximo, and mobile systems into a single operational view for call takers and back-office workers.
- Technical lead overseeing end-to-end design, development, and deployment while mentoring junior engineers.
- Designed and implemented microservices to expose Work & Asset Management processes, enabling flexible search and retrieval of Maximo data.
- Created a 'true-up' microservice to reconcile and synchronize work order status between Maximo and Field Service Edge, eliminating inconsistencies and improving operational reliability.
- Built a search microservice providing advanced query and filter capabilities over work/asset data, improving retrieval speed and reducing manual lookups.
- Designed and built a React web application portal consolidating orders from legacy, Maximo, and mobile systems into a single operational view for call takers and back-office staff.

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