Songtaek Lee

Software Engineering Manager

St. Louis, MO | stlpm4@yahoo.com | (314) 277-6084 | LinkedIn: https://www.linkedin.com/in/david-lee-012679178/

Professional Summary

Results-driven Software Engineering with 18+ years of experience leading enterprise-wide digital transformation across utilities, energy, and telecommunications. Hands-on expertise in microservices, APIs, cloud platforms, and system performance optimization. Proven ability to modernize legacy systems, build resilient distributed applications, and deliver solutions that align technology with business outcomes. Skilled in Java, Spring Boot, React, Kafka, and containerized deployments with Docker and Kubernetes.

Key Skills

Enterprise-Level Digital Transformation & Strategy, Microservices Architecture, RESTful APIs, Kafka & Event Streaming, React & Web Development, Maximo/MAS Work & Asset Management, Cloud & Hybrid IT (OpenShift, VMware, Oracle, MuleSoft, OIC), CI/CD, Java, Spring Boot, Node.js, DevSecOp, Agile Delivery

Technical Skills

Java/J2EE, docker, Kubernetes, CICD, microservices, 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, AWS Openshift, S3

Professional Experience

Ameren – St. Louis, MO

Software Engineering Manager – Work & Asset Management | July 2024 – Sep 2025

- Designed and implemented AWS infrastructure to support enterprise application, leveraging EC2 for compute, OpenShift for container orchestration, and S3 for scalable storage
- Implemented agile methodologies, resulting in improved efficiency and productivity within the software engineering team.
- Created a CI/CD pipeline for Maximo (concept through proof-of-concept), improving release reliability and accelerating delivery timelines.
- Collaborated with cross-functional teams including product management, design, and QA to gather requirements, define project scope, and ensure alignment on deliverables.
- Mentored junior software engineers by providing guidance on best practices, coding standards, and career development opportunities.
- Collaborated with stakeholders to define technical requirements for new features or enhancements, ensuring feasibility within existing systems architecture.

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- Led and delivered enterprise upgrade of the work and asset management system from an unsupported version, eliminating a critical cybersecurity risk and 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 Maximo Application Suite (MAS 9) on OpenShift/VMware, balancing cloud-smart strategy with security and compliance.

Lead Software Engineer | Mar 2020 – July 2024

- Architected and delivered a Customer Service Work Execution workflow, deployed September 2021 from legacy system to modern system.
- Integrated AWS S3 into enterprise workflows for secure, durable storage of operational and application data, enabling efficient data sharing across boundary systems.
- 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.
- Built a true-up microservice to synchronize work order status between Maximo and Field Service Edge (FSE).
- 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.
- Rearchitected the billing work flow between Maximo and CSS billing system. Modernize the integration to reduce number of failures between the system from over 50% failure to 99.99% success rate.
- Enhanced and maintained front end Angular and server-side C# on .NET framework by fixing defects, implementing new features.

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AT&T – St. Louis, MO

Senior Application Developer/IT analyst | 2007– 2020

- Led development of Common Provisioning Services (CPSVC), establishing coding standards, performing code reviews, and providing solution design.
- Modernized legacy applications by migrating to RESTful 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.
- Enhanced API gateway to docker and Kubernetes.
- Authored a Microservices Developer's Guide adopted across teams, standardizing development practices, reducing costs, and accelerating delivery.
- Designed and upgraded the home-grown API Gateway using Spring Boot, improving scalability and performance.
- Built and maintained interfaces between Amdocs billing systems and customer call support to request to regenerate a bill and retrieve the billing information while on the call with the customer.
- 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.

Education

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

Certification

Certification in Azure fundamentals