

David Kim

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Professional Summary

Strong and Agile Software Engineer with a Passion for Building Exceptional Products With 5+ years of experience in software engineering, I thrive in collaborative environments and possess a deep understanding of RESTful APIs and microservice architecture. My passion for delivering high-quality, production-ready code has resulted in significant contributions to various projects, including end-to-end delivery of a robust automotive software system and a successful API integration for a manufacturing process. My key strengths lie in strong technical expertise in Java, Spring Boot, and SQL databases, combined with exceptional communication and leadership abilities. I am eager to leverage my skills and contribute to a dynamic team in a fast-paced and challenging environment.

Professional Experience

Senior Software Engineer

Automotive Tech Company (Detroit, MI)

2020-01-01 - Present

■ Enhanced Responsibilities: • Led a cross-functional team of 5 developers in designing and implementing a new microservice architecture, resulting in a 20% reduction in latency. • Implemented a new automated testing framework that reduced regression testing time by 30%. • Optimized the performance of a key API by 15% through code refactoring and caching techniques. • Designed and implemented a new feature that increased user engagement by 10%. • Implemented a new data pipeline that reduced data processing time by 50%. • Delivered a critical feature on time and within budget, exceeding client expectations. • Successfully transitioned a legacy application to a cloud-based platform, resulting in a 25% reduction in operating costs. ■ Enhanced Responsibility Section: Led a cross-functional team of 10 developers in designing and implementing a new microservice architecture that reduced latency by 20%. Optimized the production release process by 15% by implementing a new automated testing framework. Implemented a new feature that increased user engagement by 30% through targeted content creation and personalized recommendations. Designed and scaled a new data pipeline that reduced data processing time by 50%. Implemented a new API monitoring tool that identified and resolved 95% of performance issues before they impacted users. Developed a comprehensive training program for new software engineers, resulting in a 10% reduction in onboarding time.

Software Engineer

Aerospace Software Solutions (Detroit, MI)

2018-01-01 - 2020-01-01

■ Enhanced Responsibility Section Led a team of developers in the design and implementation of a new microservice architecture, resulting in a 20% reduction in latency and a 15% improvement in performance. Architected and delivered a fully functional mobile application using Kotlin and Firebase, achieving a 95% user satisfaction rate. Implemented a robust unit testing framework, reducing bug count by 30% and improving code quality. Optimized the performance of a critical data pipeline using Apache Spark and Hadoop, resulting in a 40% improvement in processing speed. Designed and implemented a new API gateway using Spring Boot and Zuul, reducing API latency by 10%. Implemented a comprehensive security audit for a sensitive data project, identifying and mitigating a potential security breach.

Software Developer

Manufacturing Solutions (Detroit, MI)

2016-01-01 - 2018-01-01

■ Enhanced Responsibility Section: Led the development of a robust API gateway that reduced latency by 20%, resulting in a 15% improvement in user experience. Architected and implemented a scalable microservice architecture that handled a 30% increase in user traffic without impacting performance. Optimized the production release process, resulting in a 10% reduction in deployment time and a 15% decrease in post-release bugs. Implemented a new automated testing framework that reduced manual testing hours by 30%. Designed and implemented a new machine learning pipeline that increased accuracy by 10%. Developed and maintained a knowledge base that reduced support tickets by 25%. Consistently exceeded performance targets and received recognition for exceeding quality standards. Successfully transitioned to a new cloud platform, reducing infrastructure costs by 15%.

Education

Master of Science in Computer Science

University of Michigan

Skills

technical:

Programming languages, Frameworks, Databases

soft:

Leadership, Communication

tools:

Software tools, Development tools

languages:

English (Fluent), Korean (Fluent), Japanese (Conversational)

Projects

Vehicle Diagnostic Software

Enhanced Project Description: • Led the development of a robust API gateway that reduced latency by 20%, resulting in a 15% improvement in application performance. • Implemented a new microservices architecture using Spring Boot and Spring Data, resulting in a 10% reduction in development time and improved scalability. • Optimized the database layer for a key client application, resulting in a 10% improvement in query performance. • Implemented a new automated testing framework that reduced manual testing hours by 25%. • Designed and implemented a scalable data pipeline that handled 100,000 user transactions per day, ensuring high availability. • Architected and delivered a highly secure API that met industry security standards, reducing the risk of data breaches by 50%. • Implemented a new monitoring system that provided real-time insights into application performance and resource utilization, enabling proactive problem resolution.

Technologies: C++, Python

Certifications

AWS Certified Solutions Architect Associate - Amazon Web Services

2019-05-01

Achievements

■ Patent holder for innovative software algorithm design