

David Kim

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Summary

Lead Full Stack Engineer with 7+ years of experience building large-scale distributed systems and cloud-native applications. Expert in React, Node.js, Python, and AWS infrastructure. Architected platforms serving 10M+ daily active users with 99.99% uptime. Proven technical leader managing teams of up to 12 engineers while remaining deeply hands-on in system design, performance optimization, and developer tooling.

Technical Skills

Languages: JavaScript, TypeScript, Python

Frontend: React, Next.js

Backend: Node.js, Express.js, FastAPI, GraphQL

Databases: PostgreSQL, MongoDB, Redis, Elasticsearch

Cloud & DevOps: AWS, Docker, Kubernetes, Terraform, CI/CD

Architecture: Microservices, Distributed Systems

Messaging & Streaming: RabbitMQ, WebSockets

Testing & Tooling: Jest, Git

Professional Experience

Lead Full Stack Engineer

Jun 2020 – Present

StreamVerse, Seattle, WA

- Architected a cloud-native video streaming platform using React, Node.js, Python, and AWS, supporting 10M+ daily active users with 99.99% uptime.
- Led 12 engineers across multiple scrum teams, increasing sprint velocity by 45% and reducing production defect escape rate by 62%.
- Designed microservices architecture with GraphQL federation, reducing inter-service latency by 55%.
- Built real-time recommendation engine using Python, FastAPI, and Redis, increasing user engagement by 38%.
- Implemented Terraform-based infrastructure-as-code, reducing provisioning time from 3 days to 2 hours.
- Optimized CDN and video delivery pipeline, reducing annual infrastructure costs by \$120K while improving global latency by 40%.

Senior Full Stack Developer

Jan 2019 – May 2020

CloudFirst Systems, Bellevue, WA

- Developed multi-tenant SaaS platform managing 50,000+ cloud resources for 800+ enterprise customers.
- Built automated CI/CD and deployment pipelines with Docker and Kubernetes, enabling 40+ daily production deployments.
- Implemented Elasticsearch-based search handling 5M+ queries/day with sub-100ms latency.
- Designed real-time monitoring dashboards across 200+ microservices, reducing incident detection time by 75%.
- Mentored mid-level engineers through architecture reviews and pair programming.

Full Stack Developer

Mar 2018 – Dec 2018

TechBridge Solutions, Seattle, WA

- Delivered 8 enterprise web applications using React, Node.js, PostgreSQL, and MongoDB.
- Built RESTful APIs processing 1M+ daily requests with 150ms average latency.
- Implemented secure payment integrations processing \$2M+ in annual transactions.
- Maintained 85%+ test coverage using Jest and integration testing.

Projects

OpenStream – Open-source Live Streaming Platform

Built with Next.js, Node.js, WebRTC, and AWS. Achieved 3,500+ GitHub stars and 25,000+ monthly active streamers.

MLOps Pipeline – ML Deployment Platform

Automated machine learning deployment system using Python, FastAPI, Docker, and Kubernetes. Adopted by 200+ data scientists.

DevInsights – Code Quality Analytics

Real-time analytics platform using React, GraphQL, and Node.js. Earned 1,200+ GitHub stars.

Education

University of Washington

Bachelor of Science in Computer Science
Sep 2013 – Jun 2017

GPA: 3.8/4.0

Certifications

AWS Certified Solutions Architect – Professional
Certified Kubernetes Administrator (CKA)
Google Professional Cloud Architect

Languages

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