Sicong (Kevin) Jiang

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Summary

Senior Software Engineer with 8+ years of experience building scalable backend services and cloud infrastructure. Proven track record in designing and delivering high-impact solutions, mentoring junior developers, and driving system performance improvements. Currently seeking Senior/Lead Software Engineer roles to leverage technical leadership and architectural skills.

Technical Skills

Certifications:	**AWS Solutions Architect Associate**
Languages:	JavaScript, TypeScript, Go, Java, Kotlin, Python, Bash, LaTeX
Frameworks:	Express, React, Spring Boot
Cloud & DevOps:	AWS, Azure, GCP, Terraform, Docker, GitHub Actions

Professional Experience

Spark New Zealand — Auckland, NZ

Senior Software Engineer — Dec 2021 - Now

- Work as a senior software engineer as part of an agile squad that's responsible for Spark and Skinny Jump app on Android and iOS, leveraging **TypeScript** and **Node.JS** with **Express** framework to deliver backend-for-frontend **RESTful APIs** that integrate with downstream microservices.
- Collaborated with cross-functional teams, and developed new features for the mobile apps, reducing call center support calls by 40%.
- Optimized CI/CD pipelines with **Azure DevOps**, decreasing deployment time by 30%.

Java Developer (Secondment) — Sept 2024 - Nov 2024

- Implemented new SMS features using **Drools** Rule Engine, enabling 5,000+ automated self-service interactions per day.
- Refactored and migrated multiple legacy **Java 8** applications to **Java 17** and **Tomcat 9** on **AWS elastic beanstalk**, improving performance by 20%.
- Enhanced logging and monitoring using **AWS CloudWatch**, reducing incident resolution time by 35% .
- Authored 10+ technical documents, streamlining knowledge transfer and cutting onboarding time by 50%.
- Provided architectural guidance on system migration, influencing the technical roadmap for future integrations.

Institute of Data — Jul 2022 - Dec 2022

Assistant Trainer (Part Time) — *Remote, NZ*

- Mentored 10+ students on JavaScript, React, and AWS, through lab sessions and personalized guidance, with 70% successfully transitioned into junior developer roles.
- Delivered educational content 3x per week, improving student exam pass rates by 30%.
- Hosted 2 AWS technical workshops, demonstrating cloud best practices and CI/CD pipelines.

Invenco — Apr 2021 - Dec 2021

Node.JS developer — *Auckland, NZ*

- Migrated legacy code base from **Java** to **Node.JS**. achieving 60% faster response times, and improving delivery time by 40% %

- Designed and implemented REST APIs for IoT device management, supporting 10,000+ connected devices.
- Supported 3 junior developers, fostering a collaborative environment and boosting team velocity by 20%.

Crimson Education Oct 2019 - Apr 2021
Full Stack Software Engineer *Auckland, NZ*

- Delivered 5+ multi-locale marketing websites using **React**, **Typescript**, **Gatsby** and **StoryBlok** (Headless CMS), reducing page load time by 60%.
- Led the development of a serverless video processing pipeline on **AWS**, processing 500+ videos per day and reducing manual workload by 40 hours/week.
- Completed migration of API server from Heroku to AWS Elastic Kubernetes Service using Terraform and improved overall reliability by 80%.

Transportation Operations and Safety Lab, University of Wisconsin Madison July 2016 - May 2019
Software Engineer *Madison, WI, USA*

- Delivered 511 travel time system, a **Spring** based **RESTful** web application for query and retrieve archived 511 travel time information from database, serving 200K+ monthly queries.
- Enhanced real-time traffic exchange **SOAP web services**, increasing data throughput by 30%.
- Refactored multiple legacy application to reduce system coupling. Reduced the chance of unexpected outages by 300%.

Education

University of Wisconsin - Madison 2013 - 2016
Bachelor of Science, Computer Science *Madison, Wisconsin, USA*

Leadership & Mentorship

- Mentored 10+ junior developers across multiple organizations.
- Delivered 5+ technical workshops on AWS and microservices.
- Contributed to 3+ open-source projects on GitHub.

References available upon request