

# Michael Chen

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## Professional Summary

Designing, building, and implementing innovative technology solutions that meet mission-driven strategic business goals is my core expertise. My 5+ years of software engineering experience in developing integrated and secure enterprise applications using Java/J2EE has honed my expertise in Spring Boot, Microservices, REST APIs, and Event-Driven Architecture (Kafka). I am an agile team player with a proven track record of leading cross-functional engineering teams and delivering high-quality software solutions. My exceptional communication and problem-solving skills enable me to collaborate effectively with stakeholders and deliver solutions that meet the highest standards.

## Professional Experience

### Software Engineer

Microsoft (Redmond, WA)

2015-01-01 - 2018-01-01

- • Led the development of a robust microservices-based architecture for a large financial institution, resulting in a 20% reduction in latency and a 15% improvement in performance. • Architected and implemented a new event-driven architecture for a streaming analytics platform, reducing development time by 30% and improving scalability by 50%. • Delivered a comprehensive API design document, outlining the architecture, components, and specifications for a new mobile app, resulting in a 10% increase in app download rate. • Optimized the performance of an enterprise-grade application by 15% by implementing a new caching mechanism and optimizing database queries. • Implemented a robust security framework that prevented 90% of security breaches, reducing the company's cyber risk by 20%. • Designed and implemented a REST API for a new mobile app, resulting in a 15% improvement in app performance and a 20% reduction in development time.
- • Led the design and implementation of a microservices architecture, resulting in a 20% reduction in latency for critical business applications. • Architected a highly scalable and fault-tolerant API gateway using Spring Boot and Kafka, achieving a 99.9% uptime. • Delivered a comprehensive API documentation package, including architectural diagrams, use cases, and technical specifications, which improved onboarding for new developers by 30%. • Optimized API performance by 15% through code refactoring and implementation of caching mechanisms. • Implemented a robust security architecture, including OAuth and JWT authentication, authorization, and vulnerability scanning, preventing over 90% of known exploits. • Collaborated effectively with cross-functional teams, including front-end and mobile developers, to ensure seamless API integration and delivery. • Established clear and concise unit and automation test coverage for all API components, reducing bug detection time by 20%.
- Led the design and implementation of a new microservices architecture that reduced development time by 20%. Developed and implemented a REST API that achieved a 15% improvement in API performance. Implemented a new automated testing framework that reduced bug discovery time by 30%. Designed and scaled a cloud-based data pipeline that handled 100,000 users and 10 million records per day. Implemented a new API security solution that prevented 95% of unauthorized access attempts. Optimized API performance by 10%, resulting in a 20% reduction in response times.

### Senior Software Engineer

Amazon Web Services (Seattle, WA)

2018-01-01 - Present

■ Led a cross-functional team of 10 engineers in designing and implementing a new cloud infrastructure that reduced latency by 20%. Architected and scaled a distributed microservices application using Spring Boot and Kafka, resulting in a 30% improvement in performance. Implemented a new API security best practice that prevented 50% of security vulnerabilities and reduced maintenance time by 15%. Designed and documented comprehensive API specifications, which improved collaboration and code maintainability. Optimized API performance by 10% through code refactoring and caching techniques. Delivered a fully functional mobile application within 6 months, exceeding client expectations.

■ Led a cross-functional team of 10 engineers in designing and implementing a new cloud infrastructure solution that reduced latency by 20%. Architected and scaled a distributed microservices application using Spring Boot, Kafka, and REST APIs, resulting in a 30% improvement in performance. Delivered a comprehensive API design document that clearly outlined the architecture, components, and interactions of the API. Implemented a new API security solution that reduced the risk of unauthorized access by 50%. Optimized API performance by 15% through code refactoring and optimization techniques. Designed and implemented a new mobile application that exceeded user expectations with a 25% increase in engagement.

■ • Led the design and implementation of a robust cloud infrastructure that enabled the scaling of a critical web application by 25%. • Architected and scaled a distributed microservices architecture that reduced latency by 30% and improved fault tolerance by 15%. • Delivered a comprehensive API documentation that reduced onboarding time for new developers by 20%. • Optimized API performance by 10% through the implementation of a new caching mechanism. • Implemented a new automation workflow that reduced manual effort by 25% and improved consistency. • Designed and implemented a new event-driven architecture that reduced latency by 15% and improved scalability by 20%.

## Education

**Bachelor of Science in Computer Engineering**  
Stanford University

**Master of Science in Computer Science**  
MIT

## Skills

### technical:

Cloud computing, Distributed systems, System architecture

### soft:

Leadership, Communication

### tools:

Software development tools

### languages:

English (Fluent), Mandarin (Fluent), Spanish (Conversational)

## Projects

### Published 12 technical articles in software engineering journals

Project Description Enhancements • Led a team of 10 developers in the design and implementation of a new microservices-based API platform, resulting in a 20% reduction in latency and a 15% increase in customer satisfaction. • Architected and implemented a robust event-driven architecture using Kafka, enabling real-time data processing and improved scalability. • Delivered a comprehensive API documentation package, including architectural diagrams, use cases, and code samples, which significantly improved developer onboarding and reduced onboarding time by 30%.

- Optimized API performance by implementing a new caching mechanism, resulting in a 10% improvement in response times.
- Implemented a robust security framework that prevented 99% of security vulnerabilities and reduced incident response time by 25%.
- Designed and implemented a new API gateway that reduced the load on the backend server by 30%, resulting in a 15% improvement in performance.

*Technologies: Java, Python, Go*

Live Demo: <https://www.michaelchen.io/publications> | GitHub:

<https://github.com/michaelchen/publications>

### **Serverless computing platform project**

Project Description: • Led the design and implementation of a highly scalable and secure serverless computing platform, resulting in a 25% reduction in latency and a 10% increase in user satisfaction.

- Architected and built a robust microservices architecture using Spring Boot and Kafka, demonstrating expertise in distributed systems and event-driven architecture.
- Implemented innovative security measures, including API authentication, authorization, and vulnerability scanning, reducing the risk of data breaches by 30%.
- Optimized API performance by 15% through code refactoring and implementation of best practices, leading to a 20% improvement in response times.
- Designed and documented comprehensive user stories and technical specifications, ensuring clear communication between stakeholders and developers.
- Delivered the platform on time and within budget, meeting all project milestones and quality standards.

*Technologies: AWS, Kubernetes*

Live Demo: <https://github.com/michaelchen/serverless-platform> | GitHub:

<https://github.com/michaelchen/serverless-platform>

## **Certifications**

**AWS Certified Solutions Architect Professional** - Amazon Web Services

2018-01-01

**Google Cloud Professional Cloud Architect** - Google Cloud

2018-01-01

## **Achievements**

■ Professional achievement 1

■ Award 2