

# Michael Chen

## Senior Software Developer

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📍 San Francisco, CA 94102 | Open to Hybrid/Remote

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## Professional Summary

Results-driven Senior Software Developer with 6+ years of experience building scalable backend services and full-stack applications for enterprise clients. Proven track record of delivering high-impact features that improved system performance by 40% and reduced operational costs by \$200K annually. Expert in microservices architecture, cloud-native development, and DevOps practices. Passionate about writing clean, maintainable code and mentoring junior developers.

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## Technical Skills

**Languages:** Python, Java, JavaScript/TypeScript, Go, SQL

**Backend Frameworks:** Django, Flask, FastAPI, Spring Boot, Node.js/Express.js

**Frontend:** React, Vue.js, HTML5, CSS3, Redux

**Databases:** PostgreSQL, MongoDB, Redis, MySQL, DynamoDB

**Cloud Platforms:** AWS (EC2, S3, Lambda, RDS, ECS, CloudWatch), Azure (App Services, Functions)

**DevOps & Tools:** Docker, Kubernetes, Jenkins, GitHub Actions, Terraform, Ansible

**Message Queues:** RabbitMQ, Apache Kafka, AWS SQS

**Testing:** Jest, PyTest, JUnit, Selenium, Postman

**Monitoring:** Prometheus, Grafana, ELK Stack, New Relic

**Methodologies:** Agile/Scrum, CI/CD, TDD, Microservices, REST APIs, GraphQL

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## Professional Experience

### Senior Software Developer

**CloudScale Technologies** | San Francisco, CA | March 2021 – Present

*Leading backend development for enterprise SaaS platform serving 500K+ users*

- **Architected and deployed microservices infrastructure** on AWS using Docker and Kubernetes, improving system scalability by 60% and reducing deployment time from 4 hours to 15 minutes
- **Developed high-performance REST APIs** using Python/FastAPI and Spring Boot, handling 10K+ requests/second with 99.95% uptime and <50ms average response time
- **Optimized database queries and indexes** in PostgreSQL, reducing query execution time by 65% and cutting monthly database costs by \$8K
- **Implemented comprehensive monitoring and alerting** using Prometheus and Grafana, reducing mean time to detection (MTTD) by 70%
- **Led migration from monolithic architecture to microservices**, successfully decomposing legacy application into 12 independent services with zero downtime
- **Established CI/CD pipelines** using GitHub Actions and Jenkins, enabling 30+ deployments per week with automated testing and rollback capabilities
- **Mentored team of 4 junior developers**, conducting code reviews, pair programming

sessions, and technical training that improved team velocity by 25%

- **Designed and implemented caching strategy** using Redis, reducing database load by 40% and improving API response times by 35%

**Key Achievement:** Spearheaded development of real-time analytics feature that processes 2M+ events daily, contributing to 25% increase in customer retention

**Technologies:** Python, FastAPI, Java, Spring Boot, PostgreSQL, MongoDB, Redis, AWS (EC2, Lambda, RDS, S3), Docker, Kubernetes, Kafka, GitHub Actions

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## Software Developer

**FinTech Innovations Inc.** | Seattle, WA | June 2019 – February 2021

*Developed secure banking applications and payment processing systems*

- **Built and maintained RESTful APIs** for mobile banking app used by 200K+ customers, ensuring PCI-DSS compliance and data security
- **Designed and implemented payment processing workflow** integrating with Stripe and PayPal APIs, processing \$5M+ in transactions monthly with 99.99% reliability
- **Developed automated reconciliation system** using Python and Pandas, reducing manual reconciliation time by 80% (from 10 hours to 2 hours weekly)
- **Created comprehensive test suite** achieving 90% code coverage using PyTest and JUnit, reducing production bugs by 45%
- **Implemented OAuth 2.0 and JWT authentication** for secure API access, enhancing application security posture
- **Collaborated with frontend team** to develop React-based admin dashboard, improving operational efficiency by 30%
- **Optimized database schemas and queries**, reducing report generation time from 5 minutes to 30 seconds
- **Participated in on-call rotation**, maintaining 99.9% SLA and resolving P1 incidents within 2-hour window

**Key Achievement:** Developed fraud detection algorithm that reduced fraudulent transactions by 35%, saving company \$150K annually

**Technologies:** Python, Django, JavaScript, React, PostgreSQL, Redis, AWS (Lambda, RDS, CloudWatch), Docker, Jenkins, GitLab CI

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## Junior Software Developer

**WebApps Solutions** | Portland, OR | January 2018 – May 2019

*Contributed to full-stack development of e-commerce platform*

- **Developed backend features** using Node.js and Express.js for e-commerce platform handling 50K+ daily visitors
- **Built responsive frontend components** using Vue.js and integrated with REST APIs
- **Implemented product search functionality** using Elasticsearch, improving search relevance by 40%
- **Created data migration scripts** to transfer 500K+ records from legacy MySQL database to MongoDB
- **Worked closely with QA team** to identify and fix bugs, improving overall code quality
- **Participated in Agile ceremonies** including sprint planning, daily standups, and retrospectives

**Technologies:** Node.js, Express.js, Vue.js, MongoDB, MySQL, Elasticsearch, Docker, Git

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## Notable Projects

## Distributed Task Queue System | *Personal Project*

- Built scalable asynchronous task processing system using Python, Celery, and RabbitMQ
- Implemented retry logic, dead letter queues, and monitoring dashboard using Grafana
- Capable of processing 100K+ tasks per hour with automatic scaling
- **GitHub:** [github.com/michaelchen/distributed-task-queue](https://github.com/michaelchen/distributed-task-queue) (450 stars)

## E-Commerce Microservices Platform | *Open Source Contribution*

- Contributed to popular open-source e-commerce framework (5K+ GitHub stars)
- Implemented payment service integration and order management features
- Improved API documentation and added integration test coverage

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## Certifications

- **AWS Certified Developer – Associate** | Amazon Web Services | *Issued: March 2023*
- **Microsoft Certified: Azure Developer Associate** | Microsoft | *Issued: August 2022*
- **Certified Kubernetes Application Developer (CKAD)** | Cloud Native Computing Foundation | *Issued: November 2021*
- **Oracle Certified Professional: Java SE 11 Developer** | Oracle | *Issued: June 2020*

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## Education

### Bachelor of Science in Computer Science

University of California, Berkeley | Berkeley, CA

Graduated: December 2017 | GPA: 3.7/4.0

**Relevant Coursework:** Data Structures & Algorithms, Database Systems, Software Engineering, Distributed Systems, Cloud Computing, Computer Networks

**Honors:** Dean's List (4 semesters), CS Department Scholarship Recipient

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## Key Achievements & Metrics

- □ Reduced API response time by **65%** through database optimization and caching strategies
- □ Improved system uptime from **99.5% to 99.95%** through proactive monitoring and incident response
- □ Cut deployment time by **90%** (4 hours → 15 minutes) through CI/CD automation
- □ Saved **\$200K annually** through infrastructure optimization and cost management
- □ Mentored **8+ junior developers** who were promoted within 18 months
- □ Maintained **>85% code coverage** across all projects through comprehensive testing
- □ Successfully led migration affecting **500K+ users** with zero downtime

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## Professional Development

- Attended AWS re:Invent 2023 conference
- Completed “System Design Interview” course by Design Gurus
- Active contributor to Stack Overflow (15K+ reputation)
- Regular speaker at Bay Area Software Engineering Meetup

## **Languages**

- **English:** Native
  - **Mandarin Chinese:** Fluent
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## **Interests**

Open source contribution, technical blogging ([medium.com/@michaelchen](https://medium.com/@michaelchen)), rock climbing, chess

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**References available upon request**