


## Sarah Chen

### Senior Backend Developer

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 San Francisco Bay Area, CA

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### Professional Summary

Experienced Senior Backend Developer with 4+ years of expertise in designing and implementing scalable server-side applications and RESTful APIs. Proficient in Python, Java, and cloud technologies with a strong background in microservices architecture, database optimization, and DevOps practices. Proven track record of building high-performance systems serving millions of users in fintech and e-commerce environments.

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### Technical Skills

**Programming Languages:** Python, Java, Node.js, SQL

**Frameworks:** Django, Flask, Spring Boot, Express.js

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

**Cloud Platforms:** AWS (EC2, S3, RDS, Lambda), Google Cloud Platform

**DevOps & Tools:** Docker, Kubernetes, Jenkins, CI/CD, Git, Linux

**APIs & Integration:** RESTful APIs, GraphQL, API Gateway, Swagger/OpenAPI

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

**Testing:** pytest, JUnit, Mockito, Test-driven Development

**Monitoring:** Prometheus, Grafana, ELK Stack, CloudWatch

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### Professional Experience

#### Senior Backend Developer | FinanceFlow Inc. | Jan 2022 - Present

- Designed and developed microservices architecture serving 2M+ daily active users
- Built RESTful APIs for payment processing system handling \$50M+ monthly transactions
- Optimized PostgreSQL database queries reducing response time by 60%
- Implemented real-time fraud detection system using Apache Kafka and Redis
- Led migration from monolithic to microservices architecture using Docker and Kubernetes
- Collaborated with frontend team to integrate React-based dashboard with backend APIs

- Mentored 2 junior developers and conducted code reviews ensuring code quality standards

**Key Technologies:** Python, Django, PostgreSQL, AWS, Docker, Kafka, Redis

**Backend Developer | ShopSmart E-commerce | Jun 2020 - Dec 2021**

- Developed and maintained inventory management system supporting 500K+ products
- Built recommendation engine API increasing user engagement by 25%
- Implemented caching strategies with Redis reducing database load by 40%
- Created automated testing suite achieving 90% code coverage
- Deployed applications using AWS services (EC2, RDS, S3) and CI/CD pipelines
- Optimized API performance through database indexing and query optimization

**Key Technologies:** Java, Spring Boot, MySQL, AWS, Jenkins, JUnit

**Junior Backend Developer | TechStart Solutions | Mar 2019 - May 2020**

- Contributed to development of SaaS platform backend using Node.js and Express.js
- Implemented user authentication and authorization using JWT tokens
- Designed database schemas and wrote complex SQL queries
- Participated in agile development process and daily standups
- Fixed production bugs and performed system maintenance tasks

**Key Technologies:** Node.js, Express.js, MongoDB, JWT, Git

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## Projects

**Real-time Chat Application | Personal Project**

- Built scalable chat application using WebSocket, Node.js, and MongoDB
- Implemented message queuing with Redis and horizontal scaling capabilities
- Deployed on AWS with auto-scaling groups handling 10K+ concurrent connections
- **GitHub:** [github.com/sarahchen-dev/realtime-chat](https://github.com/sarahchen-dev/realtime-chat)

**API Rate Limiter Library | Open Source**

- Developed Python library for API rate limiting with multiple algorithms
- Published on PyPI with 1000+ downloads and comprehensive documentation

- Implemented sliding window, token bucket, and fixed window strategies
  - **GitHub:** [github.com/sarahchen-dev/python-rate-limiter](https://github.com/sarahchen-dev/python-rate-limiter)
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## Education

### Bachelor of Science in Computer Science

*University of California, Berkeley | 2015 - 2019*

**GPA:** 3.7/4.0

**Relevant Coursework:** Data Structures & Algorithms, Database Systems, Software Engineering, Computer Networks, Operating Systems

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## Certifications

- **AWS Certified Solutions Architect - Associate | 2023**
  - **Oracle Certified Professional, Java SE Developer | 2022**
  - **MongoDB Certified Developer | 2021**
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## Additional Information

**Languages:** English (Native), Mandarin (Fluent), Spanish (Conversational)

**Interests:** Open source contribution, technical writing, machine learning, rock climbing

**Volunteer Work:** Coding mentor at local coding bootcamp (2021-Present)

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## References

Available upon request