# ****Michael Chen****

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## ****Backend Engineer****

Results-driven Backend Developer with 5+ years of experience designing scalable APIs, microservices, and database architectures. Proficient in Java, Python, and cloud-native development. Passionate about optimizing performance, security, and system reliability.

### ****Technical Skills****

* **Languages:** Java, Python, Go, Node.js
* **Frameworks:** Spring Boot, Django, Express.js, Flask
* **Databases:** PostgreSQL, MySQL, MongoDB, Redis
* **Cloud & DevOps:** AWS (Lambda, EC2, RDS), Docker, Kubernetes, Terraform
* **APIs & Protocols:** REST, GraphQL, gRPC, WebSockets
* **Message Brokers:** Kafka, RabbitMQ
* **Testing:** JUnit, pytest, Postman
* **Tools:** Git, GitHub Actions, Jenkins, Prometheus

### ****Professional Experience****

#### ****Senior Backend Engineer****

**CloudScale Technologies** | Austin, TX | 2020 – Present

* Designed a **high-throughput microservices architecture** handling **50K+ RPS**, reducing latency by **35%** (Java/Spring Boot + Kafka).
* Optimized SQL queries and introduced **Redis caching**, cutting database load by **40%**.
* Led migration of monolithic legacy system to **containerized services** (Docker + Kubernetes), improving deployment efficiency.
* Implemented **JWT-based auth** and rate limiting, enhancing API security.
* Mentored 3 junior engineers in code reviews and system design best practices.

#### ****Backend Developer****

**DataFlow Inc.** | Seattle, WA | \*2018 – 2020\*

* Built **RESTful APIs** for a B2B SaaS platform (Python/Django), improving third-party integration success rate by **25%**.
* Reduced server costs by **30%** by migrating AWS EC2 instances to **serverless Lambda functions**.
* Automated data pipelines with **Apache Airflow**, decreasing ETL processing time by **50%**.

### ****Education****

**Master of Science in Computer Science**  
Stanford University | \*2016 – 2018\*

**Bachelor of Engineering in Computer Science**  
University of Texas at Austin | \*2012 – 2016\*

### ****Certifications****

* AWS Certified Developer – Associate
* Google Professional Cloud Developer

### ****Projects****

* **Real-Time Chat App (Go + WebSockets):** Achieved **<100ms latency** for 10K+ concurrent users.
* **E-Commerce Analytics Engine (Python/Kafka):** Processed **1M+ events/day** with dynamic aggregation.
* **Open-Source API Gateway:** Contributed to **Kong**’s plugin ecosystem (3K+ GitHub stars).

### ****Key Achievements****

* 🚀 **Patent Holder** (US-2022-12345): Optimized database sharding algorithm for distributed systems.
* 📈 **99.99% Uptime** for critical APIs at CloudScale (2023).