



# Alice Chen

Senior Backend Engineer

8 Years Microservices Architecture · Cloud Native Expert

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## Core Strengths

### Microservices Architecture

Led enterprise microservices architecture design and implementation, supporting **10M+ daily requests**

### High-Concurrency Systems

Built distributed task scheduling framework, achieved **5000+ GitHub Stars** from open source community

## Cloud Native Migration

Completed smooth migration from monolithic to cloud-native architecture, deployment efficiency improved **10x**

## Open Source Contributions

Certifications: **CKA** · **AWS SAA** · **GCP Professional Cloud Architect**

## Key Achievements

### API Latency Optimization

P99 from 800ms to 50ms (16x improvement)

### Containerization Efficiency

From weekly to daily releases

### System Availability

99.99% SLA achieved

### Cost Optimization

Cloud resource cost reduced by 40%

### Technical Influence

30+ internal tech talks delivered

## Open Source & Patents

OPEN SOURCE PROJECT

# CloudFlow - Distributed Task Scheduling Framework

GitHub 5000+ Stars

TECHNICAL PATENT

## Stream-based Resource Scheduling Method

CN202310XXXXXX

## Tech Stack

### CLOUD PLATFORMS

AWS, GCP, Alibaba Cloud, Kubernetes, Docker

### BACKEND DEVELOPMENT

Go, Java, Python, Rust, Node.js

### MICROSERVICES

gRPC, GraphQL, REST API, EventMesh, Nacos

### DATA STORAGE

PostgreSQL, MySQL, Redis, MongoDB, Elasticsearch

### MESSAGE QUEUES

Kafka, RabbitMQ, Pulsar, NATS

### OBSERVABILITY

Prometheus, Grafana, Jaeger, ELK Stack, Datadog

## CI/CD

GitLab CI, ArgoCD, Flux, Jenkins, GitHub Actions

## FRAMEWORKS

Spring Boot, FastAPI, Gin, Django, Echo

# Personal Projects

## ResumeForge - Brand-Grade Resume Generator

Open Source Project | Jan 2025 – Present

- Built multi-theme resume generation system from scratch with **58 brand design styles** (Apple/Tesla/Stripe/Vercel etc.)
- YAML-driven content management, one-click generation of **HTML/PDF/DOCX** formats, bilingual support
- Modular architecture: content-style separation, hot-pluggable themes, extensible brand customization
- Tech stack: Python, Jinja2 templating, python-docx, Chrome Headless PDF rendering

# Work Experience

## StarTech Group

Jun 2022 – Present | Shanghai

### Technical Architect · Backend Team Lead

Led core business system architecture evolution, managing **12-person team** through cloud-native transformation, supporting **3x business growth**.

### Cloud Native Architecture Transformation

- Decomposed monolithic application into **30+ microservices** with Service Mesh architecture
- Established GitOps release process, achieved **daily iteration** capability
- System availability improved from 99.5% to **99.99%**, recovery time from hours to minutes

### High-Concurrency Trading System

- Designed distributed transaction solution, supporting **10M+ daily orders**
- API P99 latency optimized from 800ms to **50ms**, peak QPS reached **50,000**
- Introduced async event-driven architecture, throughput improved **5x**

### Data Platform Construction

- Built real-time data pipeline supporting **PB-scale** data processing
- Introduced ClickHouse columnar storage, query performance improved **100x**
- Established data quality monitoring system, accuracy reached **99.9%**

## CloudSpark AI Tech

Mar 2019 – May 2022 | Shenzhen

### Senior Backend Engineer

Participated in AI inference platform R&D, responsible for core service design and performance optimization.

### AI Inference Service Platform

- Designed model service gateway supporting **100+ AI models** dynamic scheduling
- Implemented inference request load balancing, GPU utilization improved from 40% to **85%**
- Established model version management and canary release mechanism

### Real-time Feature Computation System

- Built streaming feature computation engine, latency reduced from seconds to **milliseconds**
- Feature storage using Redis Cluster, supporting **billion-scale** real-time queries
- System supported **10M+ DAU** personalized recommendations

## InnovSoft Technology

Jul 2017 – Feb 2019 | Beijing

### Backend Developer

### E-commerce Platform Backend Services

- Developed order and payment core modules, supporting **1M+ daily orders**

- Designed distributed lock solution, resolved inventory overselling issue
- Introduced message queue decoupling, system stability improved **30%**

## Certifications

CKA Aug 2023

AWS Solutions Architect Nov 2022

GCP Professional Cloud Architect Jun 2022

Alibaba Cloud ACE Sep 2021

PMP Mar 2020

## Education

2013 – 2017

Shanghai Jiao Tong University

Top-tier University

Bachelor of Computer Science