

Name: XXX

Position: Software Engineer, Machine Learning – Off-Search Sourcing and Relevance

Professional Summary

- 4+ years of full-lifecycle software development experience, from requirements gathering through deployment
- Expert in system design and architecture patterns for high-concurrency, low-latency distributed systems
- Proficient in machine learning model development: data preprocessing, feature engineering, model training
- Skilled at rapid iteration and Agile delivery, delivering incremental value through continuous integration & deployment
- Deep experience with data processing pipelines using Spark, Kafka and Hadoop ecosystems
- Strong command of Python, Java, Scala and SQL for both back-end services and ETL jobs

Core Skills

- Software Development & Architecture: SDLC, design patterns, reliability, scaling, microservices
- High-Concurrency Systems: gRPC, REST, asynchronous processing, load balancing, back-pressure handling
- Machine Learning & Data Science: TensorFlow, PyTorch, scikit-learn, MLflow, online/offline serving
- Data Processing: Apache Spark, Kafka, Hadoop, real-time streaming, batch ETL
- Programming Languages: Python, Java, Scala, SQL
- Cloud & DevOps: AWS (EC2, S3, EMR), Docker, Kubernetes, Terraform, CI/CD (Jenkins/GitHub Actions)
- Agile & Rapid Iteration: Scrum/Kanban, TDD, code review, CI/CD pipelines

Professional Experience

Senior Software Engineer | ABC Tech Co., Ltd.

July 2022 – Present, Beijing

- Architected and designed a high-concurrency, low-latency online ad serving platform handling 100M+ QPS
- Led full software development lifecycle: requirement analysis, API design, coding standards, code reviews, testing
- Built real-time data processing pipelines (Kafka → Spark Streaming → HBase) to compute and serve features
- Developed and deployed TensorFlow-based CTR prediction models; improved prediction accuracy by 7%
- Drove rapid iteration in collaboration with product and data science teams, executing A/B tests that boosted revenue

Software Engineer | DEF Information Technology Ltd.

June 2019 – June 2022, Shanghai

- Designed and implemented an offline feature computation platform processing hundreds of billions of records
- Delivered scalable ETL jobs in Python/Java with 200+ parallel tasks, cutting job runtime by 60%
- Contributed to system design for ad ranking and filtering services, improving relevance through iterative algorithms
- Maintained microservices (Spring Boot, gRPC) with CI/CD pipelines; ensured 99.9% service uptime under load

Selected Projects

Off-Search Ad Relevance Engine

- Role: Lead Architect & Developer
- Scope: Serve relevant ads on non-search pages (Product Detail, Home Page) at Amazon scale
- Tech: TensorFlow, Spark, Kafka, AWS Lambda, Docker, Kubernetes
- Impact: Achieved 6% uplift in off-search CTR and 8% incremental ad revenue

Real-Time CTR Prediction Pipeline

- Role: Full-Stack Engineer
- Scope: End-to-end streaming pipeline for feature computation and model inference
- Tech: Kafka, Spark Streaming, gRPC, Kubernetes, Helm
- Impact: Sustained <50 ms p99 end-to-end latency with 24/7 stability

Education

Bachelor of Science in Computer Science | Peking University

September 2015 – June 2019

- Relevant Coursework: Algorithms & Data Structures, Distributed Systems, Machine Learning, Database Systems

Certifications & Honors

- AWS Certified Solutions Architect – Associate

- TensorFlow Developer Certificate

- “Engineer of the Year” – ABC Tech Co., Ltd. (2023)

Open Source & Community

- GitHub: <https://github.com/your-username>

- Contributed Spark plugins and a reference Feature Store implementation

Note: Replace “XXX” with a test name as needed.