



# XIAO LUO

Software Engineer, Algorithm Engineer, Computer Vision Researcher

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Wuhan, China

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## SKILLS

Java

Algorithms

Distributed Systems

Linux

JVM

MySQL

Redis

Spring Framework

Dubbo

Netty

ZooKeeper/ETCD

RabbitMQ/RocketMQ

MapReduce, Hadoop/Spark

Python

Machine Learning

Deep Learning

## LANGUAGES

Chinese(Mandarin): Native

English: Advanced

## PUBLICATIONS

1. Qianjin Zhou, Yuchen Yan, Tianhong Fang, Xiao Luo, Qinghu Chen.

"Text-independent Printer Identification Based on Texture Synthesis", Multimedia Tools and Applications, vol. 75, no. 10, pp. 5557-5580, May 2016. (SCI-Indexed)

2. Xiao Luo, Qinghu Chen, Yuchen Yan.

"Printed Characters' Texture Identification Based on Two-factor Analysis", Journal of Computational Information Systems, vol. 11, no. 14, pp. 5199-5207, Jul 2015. (EI-Indexed)

## STRENGTH

4 years' Java backend developing experience, familiar with mainstream backend framework, large-scale scalable systems design, and Linux; Strong algorithm and coding ability, LeetCode 400+ questions solved; Fluent English speaking and writing.

## EXPERIENCE

Senior Software Engineer | B&Q China

Jul 2019 - Nov 2020

Wuhan, China

- Developing the company's supply chain management system

Junior Software Engineer | MoboTap

Jul 2015 - May 2018

Wuhan, China

- Developing the backend server application of a financial management App with millions' scale users
- Leading a seven members' team to develop a PDF search engine

## EDUCATION

M.Sc. in Signal and Information Processing | Wuhan University

Sep 2012 - Jun 2015

Wuhan, China

- GPA: 3.94/4.0 Graduated in Top 1% of Class, 1/250
- Thesis: Print Document Identification Based on Texture Analysis
- Focus: Pattern Recognition, Computer Vision

B.E. in Electronic Information Engineering | Wuhan University

Sep 2008 - Jun 2012

Wuhan, China

- GPA: 3.66/4.0 Graduated in Top 5% of Class, 19/320

## PROJECTS

Supply chain management system of an E-commerce company |




Jul 2019 - Nov 2020

- Spring Boot 2.1 + Dubbo + MyBatis + RocketMQ + ZooKeeper

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## Backend server application of a financial management App with millions scale users |

 Jul 2015 – Nov 2017

- Netty as the framework, MySQL & Redis & MongoDB for storage, ETCD for synchronization, RabbitMQ as the message queue, Docker for production deployment, Hive, Hadoop, HBase and Spark for big data management.

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## PDF search engine |

 Aug 2017 – Nov 2017

- The project I led a seven members' team to develop. By cooperating with several other groups, we had to use the web crawler team's crawler service to store the fetched PDF files into MongoDB, and the algorithm team's PDF parsing service to extract various fields of PDF files, and the search team's Apache Solr prototype to build the search index service.

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## Printed Document Verification

 Sep 2012 – Dec 2014

- As a graduate student, I participated in a forensic project using pattern recognition and computer vision algorithms to do printed document verification. The primary task is to eliminate the influence of different alphabetic characters' local shape factor and preserve only texture factor. Here are the two subprojects, corresponding to the two methods we adopt to eliminate shape factor:
    1. By using texture synthesis algorithms: Printed Document Verification based on texture synthesis [[paper](#)] [[code](#)]
    2. By using the statistic model, two-factor analysis: Printed Document Verification based on two-factor analysis [[paper](#)] [[code](#)]
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