XIAO LUO

Software Engineer, Algorithm Engineer, Computer Vision Researcher

@ luoxiaorose126@gmail.com ☎ +8615072488162 📍 Wuhan, China
🔗 https://www.linkedin.com/in/xiao-luo-3029b2140/ 🌐 https://xiaoluo-whu.github.io/

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 back-end 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

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.

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.

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**]