**Liang**

**DevOps Architect, Sr. Java Developer**

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# SUMMARY

A backend developer and DevOps engineer in eBay Core AI Engineering, be responsible for AI debugging for applied researchers in eBay.

16+ years of experience in software development with overwhelming programming skills. As a software architect for more than 7 years.

Various backend development skills. A practical solution designer, especially at start-up and pioneering projects.

# EDUCATION

**Syracuse University –** College of Engineering & Computer Science, Syracuse, NY Sep. 2021 – May. 2023Master of Science: Computer Science

* GPA: 3.58 / 4.0
* Grade A coursework: Storage & Big Data, Operating System, Algorithm, Embedded System

**Guangdong University of Technology –** School of Management, Guangzhou, China Sep. 2002 – Jun. 2006Information Management & Information System

* Bachelor of Management

# WORK EXPERIENCE

**Backend Developer, eBay** – New York, NYJul. 2022 – Present

* Maintain & support the AI researchers to perform deep learning training & inference in parallel with eBay's internal training & inference platform, which are based on Kubernetes.
* Troubleshoot the AI researchers' Python or Java code.
* Designed and implement automatic conversation bots for support request on Slack support channels with machine learning.
* Create some scripts and documents that facilitate the customer support SOPs.

**Sr. Software Architect/Backend Developer, Guangzhou Baorong Application Tech**.

Co.Ltd – Guangzhou, ChinaJun. 2018 – Jul. 2021

* Optimized distributed web system's performance & availability with C# & Python.
* Led team to implement Clinical Decision Support Systems with machine learning and C# .NET Core Web API.
* Coded for core parts (Java, C#, Python).

**Software Architect, Nanfang Media Group** – Guangzhou, ChinaOct. 2016 – Jun. 2018

* Optimize distributed web system's performance & availability with C#, Java & Python, and implemented a recommendation system.
* Migrated Nanfang Plus from self-hosted cloud physical servers to AWS-compatible cloud-based PaaS.
* Solved various performance and robust issues with big-data solutions such as stream processing with RabbitMQ, ELK stacks, and NoSQL.

**Platform Architect,** Hengten Networks/China Evergrande – Guangzhou, ChinaSep. 2015 – Jun. 2016

* Led team as deputy tech leader in Life Service Department.
* Accomplished first version of app with Java Spring related codes and microservices.

**Sr. Software Eng./Architect,** Richinfo Technology Co. Ltd. – Guangzhou, ChinaMar. 2012 – Aug. 2015

* Analyzed and designed various online e-commerce systems including China Mobile Application Market with Java & C#.
* Led tech. team for pre-sales technical and bidding support.

**Sr. Software Engineer,** GoSunCN Group Co. Ltd. – Guangzhou, ChinaJun. 2010 – Mar. 2012

* Refactored existing monitoring system from C/S to B/S with Microsoft WPF & Silverlight.
* Cooperated with hardware department to handle big IoT data with self-hosted map-reduce.

May 2006 – Jun. 2010 **Programmer,** China Ceprei Lab – Guangzhou, China

* Implemented projects about aviation standards ATA and S1000D aviation maintenance systems with Microsoft .NET Windows Forms and WPF

# PROJECT EXPERIENCE Guangzhou Baorong Application Tech. Co.Ltd Jun. 2018 – Jul. 2021

* Upgraded .NET Framework monolithic programs to NginX + Ocelot + .net core Web API architecture.
* Dockerized and scale out .net core microservices in AWS-compatible cloud environment with Kubernetes.
* Solved various data synchronization issues and performance issues with Kafka, Kafka Connect and Kafka Streaming.
* Scaled out WebSocket chatting application with RabbitMQ as service bus.
* Classified images with PyTorch and ResNet18 for diagnosis purposes, profiling users with clustering algorithms.

# Nanfang Media Group/Nanfang Plus App Oct. 2016 – Jun. 2018

* Led upgrade from a monolithic content management system(CMS) to a cloud-based microservices architecture with Spring Boot & Spring Cloud.
* Created modules such as search, static files management and video trans-coding, made good use of Alibaba Cloud(AWS compatible) PaaS to upgrade functions and performance.
* Optimized first-page-loading time to 1st among Chinese news APPs with \*.webp and CDN-based image resize, and increase robustness.
* Led big-data team and made more than 11 rounds of iterations for recommendation system with ALS, item-based recommendation algorithm, naive bayes classification algorithm. Used multi-classes and multi-label algorithms to customize article categorization and keyword extraction.

# China Evergrande/Hengten Mimi App Sep. 2015 – Jun. 2016

* Built microservices with Alibaba Dubbo + Spring MVC + Apache Thrift architecture.
* Scaled MySQL vertically and horizontally.

# Shenzhen Richinfo/China Mobile App Store Jan. 2013 – Nov. 2014

* Designed NginX + PHP + Java architecture project supports 8 million page views per day.
* Tuned performance of product items data synchronization from China Mobile Developer Community to MySQL with RabbitMQ.
* Monitored production environment and tackle with issues as a DevOps engineer.

# CERTIFICATES

* Udacity: Computer Vision Nano Degree, March 2019 o <https://graduation.udacity.com/confirm/Q7HHR9QF>
  + https://www.udacity.com/course/computer-vision-nanodegree--nd891
  + The essentials of computer vision, including image transformation, neural network architectures, and object recognition
* Microsoft Exam 475: Designing and Implementing Big Data Analytics Solutions, December 2017 o <https://www.credly.com/badges/70b18283-a58b-4b55-b519-1c4cc3c6b1af>

# COMPUTER SKILLS • Office & Computer Operation: Advanced

* **Programming**: Java, C#, Python, C++
* **Industry Knowledge**: Algorithms, Software Design, REST/Web API, Distributed System Design & Architecture, Machine Learning
* **Tools & Technologies**: Relational Databases -- MySQL/MariaDB, NoSQL -- MongoDB,

Recommendation Systems, Stream Processing -- Kafka, Cloud Computing -- Microsoft Azure, AWS, ELK, Redis