

# 张 洋

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## 教育背景

2011.09—2015.07	上海大学	计算机工程与科学学院	计算机科学与技术	本科
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## 工作方向

研发工程师

## 项目经验

- **基于图搜索的 Web 服务组合系统实现, 国家自然科学基金项目** 2015.03—2015.09  
在对 Web 服务 QoS 稳定性分析的基础上, 利用人工智能领域中的状态空间搜索、启发式搜索和自动规划等相关理论和方法, 研究基于图搜索和启发式搜索的不确定性 Web 服务组合算法, 实现 Web 服务组合系统。 代码量: 2 万行
  - 使用 Fast Downward 规划系统将规划域描述语言表示的规划域和问题转换为以 Java 语言描述的数据结构;
  - 在人工智能规划器 MyND, AO\*和 LAO\*算法的基础上设计基于图搜索 BFS 的算法, 实现 Web 服务组合系统;
  - 使用 Graphviz 系统将 Web 服务组合结果可视化展示、分析并比较各算法性能。**核心技术: Java, Python, SSH; AO\*, LAO\*, 广度优先搜索, 启发式搜索, 规划器**
- **Web 服务不确定性 QoS 稳定性评估系统实现, 国家自然科学基金项目** 2015.01—2015.06  
项目采用地域划分的方式, 使用云模型和标准离差率模型计算 QoS 的不确定性, 完成对 Web 服务 QoS 稳定性的评估, 作为 Web 服务组合的基础。 代码量: 5 千行
  - 对百万级的 Web 服务调用信息数据集进行分析、统计、结果可视化展示, 分析 Web 服务的 QoS 的稳定性;
  - 利用概率论与数理统计和数值分析的理论, 通过云滴模型等统计方法来详细分析数据集的数字特征, 通过 Java EE 完成系统实现。**核心技术: Java, SSH, Web Service; QoS; Regional Division; Cloud model;**
- **车辆保险支付系统, 上海雷龙金融服务公司委托** 2014.06—2014.12  
系统实现汽车保险单支付、保险公司业绩查询和统计、系统运行监控、日志维护、后台管理等功能, 该系统已在雷龙公司内部上线。作为开发团队组长, 主要负责系统日志模块的完整开发以及监控模块和后台管理模块的部分开发; 完整参与并完成项目需求分析、概要设计、开发部署及测试和项目文档撰写与验收。 代码量: 2 万行
  - 协调项目开发团队进度, 安排周会; 对项目中遇到难题进行技术攻关; 撰写项目各个阶段文档: 用户指南、操作手册、安装部署指南、测试报告以及前期各类技术文档整理;
  - 负责日志模块开发, 以 Log4j 作为日志系统框架, 完成日志产生、分级、分类、存储、备份、查询的核心业务功能, 并对系统中严重等级日志分析为系统监控模块提供数据来源;
  - 日志系统采用完全异步的结构, 支持日志输出到文件、数据库、控制台并提供文本、Excel、CVS 格式的日志导出功能, 负责监控模块部分开发, 对系统中的严重等级日志分析、提取产生报警信息。**核心技术: Java, Spring, Struts, Hibernate, Log4j; Bootstrap; Linux, Weblogic 12c; Oracle 11g, PL/SQL**

## 专业技能

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|---|----|
| ● Java SE: I/O, 集合框架, 多线程, 理解 JVM 原理                  | 精通 |
| ● Java EE: Spring, Struts, Hibernate, SpringMVC, 设计模式 | 熟练 |
| ● 常用算法, 数据结构  | 熟练 |
| ● Linux 常用命令, Shell Script                            | 熟练 |
| ● Database: MySQL, Oracle                             | 掌握 |
| ● C++   | 掌握 |
| ● Python, MATLAB                                      | 一般 |
| ● HTML, CSS, JavaScript, Bootstrap                    | 一般 |

## 其他信息

- 中国计算机协会: 软件能力认证
- 语言能力: 英语 CET-6

# Jacky ZHANG

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## EDUCATION

2011.09—2015.07

Shanghai University

Bachelor in Computer Science

## OBJECTIVE

Development Engineer

## PROJECTS

- **Web Service Composition System Based on BFS, National Natural Science Foundation of China** 2015.03—2015.09

On the basis of the analysis of stability of QoS, based on artificial intelligence in the field of state space search, heuristic search, automatic planning theories and graph search algorithms, this project completed an uncertainty web service composition algorithm for the web service composition system.

- Using the Downward Fast planning system to transform the planning domain and problem into the data structures described in Java;
- Based on an artificial intelligence planner MyND, AO\* and LAO\* algorithms and graph search algorithms to design the Web service composition algorithms;
- Visual presentation, analysis and comparison of the performance of each algorithm by using the Graphviz system to visualize the Web services composition results.

- **Web Service Qos Stability Evaluating System, National Natural Science Foundation of China** 2015.01—2015.06

The Web service call information data set is analyzed, and the operation and the results are visualized, which provide the data source for the service composition calculation.

- The Web service call information data sets were analyzed, and the results were statistically analyzed;
- Using probability theory and mathematical statistics and numerical analysis theory, through the cloud model and other statistical methods to analyze data sets of numerical features and used the Java EE technology to complete the system.

**Core Technology:** Java, SSH; **Web Service;** QoS; **Regional Division;** Cloud model;

**Core Technology:** Java, Python; SSH; AO\*, LAO\*, BFS; **Artificial Intelligence:** Heuristic Search Algorithms

- **Vehicle insurance payment system, The Shanghai LeiLong Financial Services Company Entrusted** 2014.06—2014.12

This system completed the car insurance payment, the insurance company performance inquiry and the statistics of core business, as well as the system operation monitoring, the log maintenance and the backend management.

- Coordinated the progress of the project development, arranged the weekly meeting; Solved the technical problems encountered in the project; Wrote all phases of the project documentation;
- Responsible for log module development with Log4j as a log system framework completed core business functions;
- The log system designed as asynchronous structure, supporting the log output to multi format, and responsible for the development of the monitoring and backend management module.

**Core Technology:** Java, Spring, Struts, Hibernate, Log4j; **Bootstrap;** Linux, Weblogic 12c; Oracle 11g, PL/SQL

## PROFESSIONAL SKILLS

- **Java SE:** I/O, Containers, Multi-thread,
- **Java EE:** Spring, Struts, Hibernate, SpringMVC, Design Patterns, JVM
- **Algorithms, Data Structures**
- **Database:** Oracle, MySQL
- **Linux, Oracle Weblogic Server, Tomact, Shell Script**
- **C++, Python, MATLAB**
- **HTML, CSS, JavaScript, Bootstrap**

## OTHER INFORMATION

- China Computer Federation: Computing Accreditation for Professionals
- Language skills: fluent in English, CET-6;