

Yao Zhang

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Education

University Of Oxford

MSc in Computer Science, especially in Deep learning with Distinction Dissertation

Oxford, UK

Oct 2014–Nov 2015

University of Nottingham

BSc in Computer Science, **First Class Honor degree, Rank: top 5%**

Nottingham, UK

Sep 2010–July 2014

Work Experience

Senior Software Engineer, Intel R&D Asia, Shanghai

March 2017–Now

Software Engineer, Intel R&D Asia, Shanghai

May 2016–Feb 2017

Worked on large-scale deep learning development

- As a main (ranked #2) contributor to BigDL: *Distributed Deep learning Library for Apache Spark*.
- Implemented and optimise cutting-edge deep learning models
- Successfully delivered large-scale machine learning solutions for customers, including Vision, NLP and so on.

Part-time Software Engineer, Development Team, EASA Software, Oxford

Feb 2015–July 2015

Worked on a Java EE platform for fast authoring, publishing web applications and automatically transforming Matlab and Excel programs to web applications.

- Developed Java Web Applications, solved problems including Java, Database, Security and so on

Research Assistant, Intelligent Modelling & Analysis Research Lab, Nottingham

July 2014–Aug 2014

Used NLP techniques to

- Built a program to identify and annotate the risk factors automatically for Heart Disease in Diabetic Patients

Summer Intern, University of Nottingham, ASAP Research Group

Jun 2013–Aug 2013

Worked on a project which aims to schedule the port freight transportation

- Developed an *Android* app as client and an admin website for transportation tacking and management

Projects

Made useful tools and websites in *Java*, *C++*, *Matlab*, *Python* and *J2EE* with 10+ projects. Details in the project list on <http://psyyz10.github.io/projects/>.

BigDL ([Link](#)): An open source *distributed deep learning Library for Apache Spark*

- An open source project on GitHub with *thousands of stars*, natively integrated with Apache Spark, performance comparative with GPU.
- As a main contributor with ranked #2 contributions

Stock Prediction with deep learning (Master Dissertation) - High Distinction at the University of Oxford ([Link](#))

- Proposed an approach using financial reports to predict stock market trends with multiple deep learning models
- To learn sequential information of the events, proposed a new model by combining RNN-RBM and DBN
- Achieved a **top ranked** mark among the students in MSc Computer Science at the University of Oxford

Plant Disease Diagnosis Application

- Developed an **android** application to identify plant diseases automatically based on leaf appearance
- **Computer vision** and **machine learning** techniques are applied and programmed with **Matlab** and **Java**

A Mobile Auction Online System - First Class

- As a **technical leader** and main programmer within a group
- Built an online auction and shopping mobile system like ebay with **J2EE**

Honors and Awards

High Achievers Awards for academic excellence

2012-2013

For top 10 (out of 180) students in Computer Science department at the University of Nottingham

Head's Scholarship for academic excellence

2011-2012

For top 15% students at the University of Nottingham

Professional skills

Professional: Scala, Java, Haskell, Torch **Proficient:** MatLab, C/C++, Latex, MySQL, Spark, Tensorflow

Prior Experience: Keras, Theano, Mongo, JavaScript, CSS/Sass, Coq, OpenGL, Android, JSP

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教育背景

牛津大学 (世界排名前五)	牛津, 英国
计算机科学硕士学位 (机器学习), 获优秀毕业论文	2014/10-2015/11
诺丁汉大学 (世界排名前百)	诺丁汉, 英国
计算机科学学士, 一等荣誉学位, 排名: 前5%	2011/9 - 2014/06

工作经验

高级软件工程师, 英特尔亚太研发, 上海	2017/3 至今
软件工程师, 英特尔亚太研发, 上海	2015/5-2017/2
从事大规模深度学习开发	
<ul style="list-style-type: none">作为主要贡献者 (贡献排名第二) 开发开源项目BigDL: 基于Apache Spark的开源分布式深度学习框架实现和优化前沿的深度学习模型成功地为客户公司解决大规模机器学习的相关问题, 包括机器视觉和自然语言处理方面。	
兼职软件工程师, 开发组, EASA Software, 牛津	2015/2-2015/7
从事于一个快速编写发布网络应用, 把Matlab和Excel的程序转自动化为网络应用的一个J2EE的平台	
<ul style="list-style-type: none">开发Java网络应用, 解决Issues, 包括前端以及后端的Java, 数据库, 安全等	
助理研究员, 诺丁汉大学智能建模和分析研究组, 诺丁汉	2014/7-2014/9
用自然语言处理技术	
<ul style="list-style-type: none">开发一个程序给定医生写的病历, 来自动识别和标注糖尿病病人得心脏病风险因素	
暑期实习, 诺丁汉大学, ASAP研究组	2013/6--2013/8
和一个团队一起做一个优化港口货运运输的项目	
<ul style="list-style-type: none">开发了一个给司机的Android客户端和一个运输跟踪和管理的网站	

项目

用Java, C++, Matlab, Python和J2EE等制作了有用的工具和网站, 项目数量10+。详细信息请参考项目列表, 链接 <http://psyyz10.github.io/projects/>.

BigDL: 基于Apache Spark的开源分布式深度学习框架 (链接)

- 数千星星的GitHub开源项目, 可以直接在Spark和Hadoop集群上运行, 性能可以与主流GPU媲美。
- 作为主要贡献者, 贡献排名第二

用深度学习做股票预测 (硕士论文) - 牛津大学研究生优秀论文 (链接)

- 提出了一个用金融报告通过多种深度学习模型来预测股票走势是的方法, 并与state-of-art机器模型比较
- 为了捕捉事件序列化信息, 组合RNN-RBM和DBN, 提出一种新的模型
- 取得了在牛津大学计算机系的学生中的高排名分数

植物疾病诊断手机应用

- 开发了一个安卓手机应用, 通过拍照叶片表面来自动识别植物疾病
- 应用计算机视觉和机器学习技术, 主要编程语言是Matlab和Java

一个移动拍卖系统 - 一等成绩

- 在一个团队里, 作为一个技术领导者和主要程序员
- 用JSP, Java Servlet以其前端开发语言建立了一个完备的网上竞拍和购物的移动系统

荣誉和奖项

学术高度成就奖学金	2012-2013
奖给 University of Nottingham 大学计算机系所有学生中, 成绩排在前十名(在180人中)的学生	
院长学术成就奖学金	2011-2012
奖给 University of Nottingham 计算机系, 成绩在前15%的学生	

专业技能

专业: Scala, Java, Haskell, Torch 熟练: MatLab, C/C++, Latex, MySQL, Spark, Tensorflow
有过经验: Keras, Theano, Mongo, JavaScript, CSS/Sass, Coq, OpenGL, Android, JSP