

# Yao Zhang

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## Education

### University Of Oxford

Oxford, UK

MSc in Computer Science, especially in Machine learning, GPA: 3.7/4.0

Oct 2014–Nov 2015

### University of Nottingham

Nottingham, UK

BSc in Computer Science, First Class degree, GPA: 3.8/4.0, Rank: 5/180

Sep 2010–July 2014

## Work Experience

### Part-time developer, Development Team, EASA Software, Oxford

Feb 2015–July 2015

Worked on a J2EE platform for fast authoring, publishing web applications and automatically transforming Matlab and Excel programs to web applications.

- Solved 50+ tickets with **Java, JSP, JS, Spring, MySQL, Mongo** techniques, on both front and back end;
- Upgraded data persistence from filesystem to database using Hibernate.
- Also worked on testing and bug fixing.

### Research Assistant, Intelligent Modelling & Analysis Research Group, Nottingham

July 2014–Sep 2014

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

- Operated on a large set of medical record data (10 GB) of diabetic patient
- Solved Natural Language Processing (NLP) tasks with **Java** and **Python**, obtained 84% accuracy.

### Developer Intern, University of Nottingham

Jun 2013–Aug 2013

Worked with a team on a project which aims to optimised the freight transportation at Ningbo port

- Developed an *Android* app as client and an admin website for transportation management
- Functions includes GPS positioning, vehicle tracking, task allocating and daily reporting;

## 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/>.

### Fantuan

- Fantuan is a social networking mobile application that facilitates offline group dinner in London
- Working on it with a team for its first version release, developed with **Ionic, AngularJS, Node.js** and **Gulp**

### Stock Prediction with deep learning (Master Dissertation) - High Distinction (Link)

- Proposed an approach using financial reports to predict stock market trends with modified deep learning models
- Programmed with **Python** and a series of libraries such as **Numpy, NLTK, Theano** and **Sklearn**
- Achieved a **top ranked** mark among the students in MSc Computer Science at the University of Oxford

### Plant Disease Diagnosis Application (Undergraduate Dissertation) - First Class

- 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**
- Developed algorithms such as proxy bidding, item recommendation, and P2P Network Reputation Management

## 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:** Java, Haskell      **Proficient:** Python, MatLab, JSP, C/C++, Latex, MySQL

**Prior Experience:** Spring, Mongo, AngularJS, R, JavaScript, CSS/Sass, Coq, OpenGL, Node.js, Android, Torch

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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 <b>GPA: 3.7/4.0</b>	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, 一等学位, <b>GPA: 3.8/4.0</b> , 排名: 5/180	2010/10 – 2014/06

## 工作经验

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"><li>解决50多个任务用 <b>Java, JSP, JS, Spring, MySQL, Mongo</b>等技术, 包括前端和后端</li><li>把数据持久性从文件系统升级到数据库用Hibernate</li><li>同时测试和修改bug</li></ul>	
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
制作了一个程序来自动识别和标注, 糖尿病病人得心脏病的风险因素	
<ul style="list-style-type: none"><li>操作在一个存放很大的糖尿病病人医疗纪录的数据集 (10 GB)</li><li>用<b>Java</b>和<b>Python</b>解决自然语言处理有关的任务(NLP), 取得了84%的准确率.</li></ul>	
开发者实习, 诺丁汉大学	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"><li>开发了一个给司机的<b>Android</b>客户端和一个运输管理的网站</li><li>功能包括GPS定位, 车辆跟踪, 任务分派, 每日报告等</li></ul>	

## 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/>.

### 饭团

- 饭团是一个正在开发中的移动社交网络应用, 它可以简化线下的组团约一起吃饭的过程
- 正在和一个小团队一起开发第一个发布版本, 开发应用**Ionic, AngularJS, Node.js**和**Gulp**等技术.

### 用深度学习做股票预测 (硕士论文) - 研究生一等荣誉论文 (链接)

- 提出了一个用金融报告通过深度学习来预测股票走势是的方法
- 用**Python**和一些列函数库如**Numpy, NLTK, Theano**和**Sklearn**开发。
- 取得了在牛津大学计算机系的学生中的高排名分数

### 植物疾病诊断应用 (本科论文) - 本科一等荣誉论文

- 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**J2EE**, 建立了一个完备的网上竞拍和购物的移动系统
- 开发算法如代理竞标, 物品推荐, 和P2P网络声誉管理等

## 荣誉和奖项

学术高度成就奖学金	2012-2013
奖给诺丁汉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
奖给诺丁汉大学计算机系, 成绩在前15%的学生	

## 专业技能

专业: Java, Haskell      熟练: Python, MatLab, JSP, C/C++, Latex, MySQL

有过操作经验: Spring, Mongo, AngularJS, R, JavaScript, CSS/Sass, Coq, OpenGL, Node.js, Android,