

# Yao Zhang

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## Education

### University Of Oxford

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

Oxford, UK

Oct 2014–Oct 2015

### University of Nottingham

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

Nottingham, UK

Sep 2011–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 30+ tickets with **Java, JSP, JFS, JS, Hibernate** 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, Ningbo China

Jun 2013–Aug 2013

Worked with a team on a project which aims to optimised the freight transportation in 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

- 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

**Expert:** Java, Haskell

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

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