# Yao Zhang

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## Education

**University Of Oxford**                                                                          *Oct 2014–Oct 2015*
*MSc in Computer Science, **with Distinction Dissertation***

**University of Nottingham**                                                                  *Sep 2010–July 2014*
*BSc in Computer Science, **First Class degree***

## Work Experience

**Software Engineer**, *EverString China*, Beijing                                    *Jan 2016-Feb 2016*
Worked on an intelligence decision plateform that provides lead scoring and predictive demand generation that is enabling the predictive generation of marketing.

- Developed web Application on lead scoring and demand generation
- Wrote documents on Confluence
- Used Techniques: Java, Python, Spring Framework,  MySQL, Mongo, HDFS, ElasticSearch etc.
- Used Tools:  Maven, Bitbucket, Datadog, Rapid Message, Queue, Jenkins, Confluence

**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  tickets with **Java, JSP, JS MySQL** techniques, on both front and back end;
- Also worked on testing and bug fixing.

**Research Intern**, The University of Nottingham, Nottingham                  *July 2014–Sep 2014*
Built a program to identify and annotate the risk factors automatically for Heart Disease in Diabetic Patients

-  Identifying and annotating 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/.

**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, MongoDB, Scala, AngularJS, R, JavaScript, CSS/Sass, Coq, OpenGL, Maven, Android, Torch